

47th LCA Discussion Forum

LCA OF ENERGETIC BIOMASS UTILISATION: ACTUAL PROJECTS AND NEW DEVELOPMENTS

23. April 2012, Ittigen (near Berne), Verwaltungszentrum des UVEK

We invite you to the **47th discussion forum on Life Cycle Assessment**
This event will be held in English

In the last years, the use of biomass for energy purposes, such as electricity, heat, and transport services, has been seen as a promising option to reduce the use of non-renewable energy sources and the emissions of fossil carbon. However, LCA studies have shown that the energetic use of biomass also causes impacts on climate change, and, furthermore that different environmental issues arise, such as land use and agricultural emissions. While biomass is renewable, it is not an unlimited resource. Its use, to whatever purpose, must therefore be well studied to promote the most efficient option with the least environmental impacts.

Consequently, there is a need for up-to-date life cycle inventories of biomass and its energetic use to provide such studies with best available data. This is the focus of a range of projects financed by the Swiss Federal Office of Energy (SFOE), which are presented in this discussion forum. The inventories developed in those projects will be published to a great extent in June in the new version of ecoinvent (www.ecoinvent.org). Some of the inventory data are already now freely available in EcoSpold format and can thus be used by LCA practitioners (<http://www.lc-inventories.ch>).

In the **47th discussion forum** current developments of LCA studies in the field of energy crops, biogas production, biomass combustion and biofuels will be presented. We invite all LCA researchers, practitioners and all people interested in energetic biomass utilisation to hear about the results from the latest studies. The forum will as usual also offer the opportunity for short presentations on the topic.

We look forward to meeting you in Berne!

Matthias Stucki (ESU-services), Mireille Faist Emmenegger (EMPA) & Sandra Hermle (SFOE)

1 Programme

Time	Title	Speaker
8:30	<i>Registration, Coffee and Croissants</i>	
9:15	Welcome	Sandra Hermle, SFOE
	SFOE projects: Agricultural biogas production	Chair: Mireille Faist
9:30	LCA of biogas from different purchased substrates and energy crops	Matthias Stucki, ESU-services Ltd.
10:00	Are catch crops sustainable for biogas production?	Frank Hayer, ART (now FOEN)
10:30	LCA of agricultural biogas production – the effects of plant size	Martina Alig, ART
11:00	<i>Coffee break</i>	
	SFOE projects: Biomass treatment	Chair: Matthias Stucki
11:20	LCA of burning different solid biomass substrates	René Itten, ESU-services Ltd.
11:50	Effects of accounting organic matter in compost and digestate	Konrad Schleiss, UMWEKO GmbH
12:10	Influence of heavy metals on evaluating biomass treatment	Mischa Zschokke, Carbotech
12:30	<i>Lunch break</i>	
	SFOE projects: Biomass and biofuels	Chair: Rainer Zah (Empa)
13:40	Harmonisation and update of the biomass datasets in the context of bioenergy	Thomas Nemecek, ART
14:00	Update and harmonization of the bioenergy inventories	Mireille Faist, Empa
	Short presentations	
14:20	Short presentations	
15:10	<i>Coffee break</i>	
	Outlook	Peter Gerber
15:40	What are the environmentally optimal uses of different biomass feedstocks - heating, electricity generation or transportation?	Bernhard Steubing, ETHZ/Empa
16:10	Bioenergy in the European Union	Susanne Köppen, IFEU
16:40	Feedback, wrap-up and farewell	Peter Gerber, FOEN
16:50	<i>Finish</i>	



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2 Practical information

§ Accommodation

For the people spending the night in Berne, there are different accommodation facilities. Please refer to www.berninfo.com or www.booking.com.

§ Application form

To register to the 47th DF, please fill in the application form (word .doc) attached and send it back to the LCA Discussion Forum secretariat (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). The program describing the DF 47 is also available on the website www.lcaforum.ch.

§ Invoice

Once the application form was sent to the LCA Discussion Forum secretariat (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

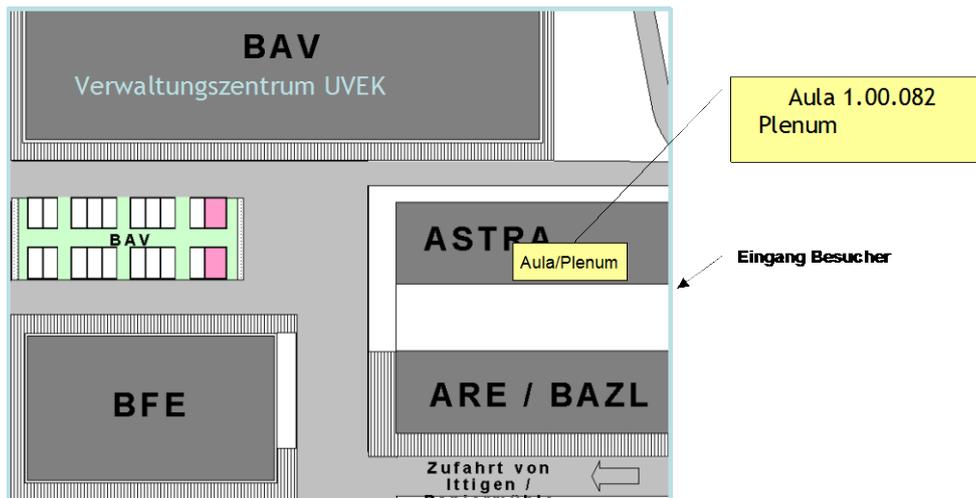
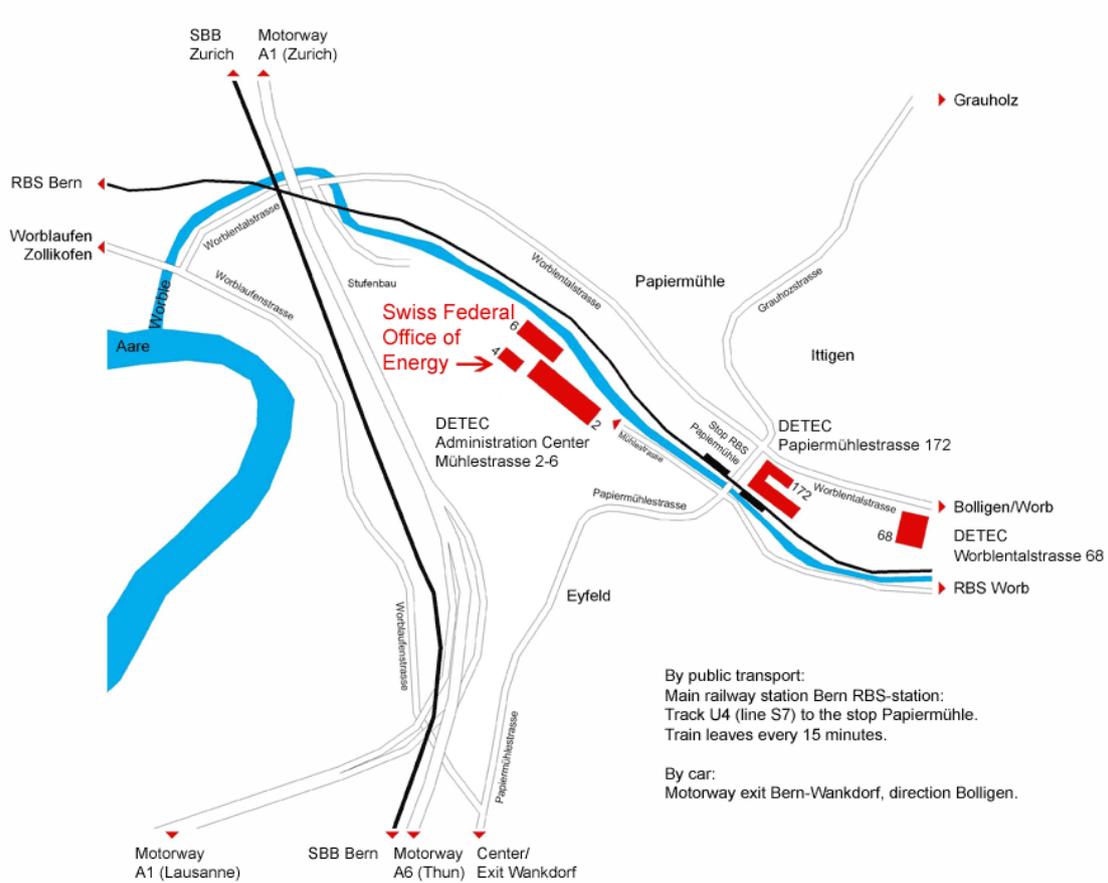
An organized lunch will be available at the UVEK for an additional 25 CHF per person. Please inform the conference organizers (lcaforum@quantis-intl.com) in advance if you do not want lunch or if you are vegetarian. The payment of this lunch (only Swiss francs and no credit cards) will be possible in the morning of the forum at the reception desk, between 8:00 to 9:00 am.

§ 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. 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" (2nd stop).

To reach the DETEC go back some meters to the railway crossing, cross the street (not 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, www.lcaforum.ch, 0041 21 693 91 92) or Matthias Stucki (stucki@esu-services.ch, 0041 44 940 67 94).