94th LCA Discussion Forum

Turning Waste into Value: Life Cycle Assessment of Side Stream Valorisation and Food Waste Reduction

Friday, 6. November 2026
Location of this DF LCA: **Wädenswil, Campus Grüental, Aula in GA 203**

The official language of this event is English

Approximately 25% of the environmental impact of the global food system is attributed to so called 'avoidable' food losses and waste. Valorising industrial side streams and reducing food waste present major opportunities to mitigate these impacts. With the action plan against food waste, the Swiss Federal Council aims to halve avoidable food losses by 2030. Life Cycle Assessment (LCA) plays a critical role in evaluating the environmental performance of different strategies for side stream valorisation.

This LCA Discussion Forum will delve into the environmental impact assessment of food waste reduction and side stream valorisation, addressing key aspects such as data quality, methodological choices (e.g., allocation methods), impact assessment approaches, and interpretation within the context of food systems. An expansion integrates social, economic and health aspects by including to get to the overarching Life Cycle Sustainability Assessment (LCSA) framework, showcasing how environmental, social, and economic impacts can be assessed together for side stream valorisation.

We look forward to welcoming you at the Campus Grüental in Wädenswil.

Dimitri Chryssolouris, Matthias Stucki, and Claudio Beretta
Zurich University of Applied Sciences (ZHAW)

This event takes place in Wädenswil



Programme

Time	Working Title	Speaker [Chair]
08:15	Registration and Coffee	Dimitri Chryssolouris, ZHAW
08:50	Welcome and Introduction to the Topics of the Day	Matthias Stucki & Claudio Beretta, ZHAW
09:00	**Session 1: Why Food Waste & Side Streams Matter**	**[Matthias Stucki]**
09:00	Action Plan Against Food Waste: Implementation, Monitoring and the Crucial Role of LCA for Food Waste Reduction and Side Stream Valorisation	Florence Favre, BAFU
09:20	From Material Flows to Environmental Impacts: Modelling Food Systems to Support EU Policies and Boost Innovation	Annarita Valenzano, JRC
09:40	Environmental Impacts of Food Waste in Europe and Priorities for Mitigation	Mara Petruzzelli, Agroscope
10:00	Discussion	all
10:15	**Interactive Coffee Break**	
10:45	**Interactive Break Recap**	
10:55	**Session 2: Methodological Approaches to Assess Side Stream Valorisation**	**[Dimitri Chryssolouris]**
10:55	Methodological and Data Challenges in the Assessment of By-Product Valorisation – and Approaches to Address Them	Vanessa Zeller; Justus-Liebig-Universität Giessen
11:15	Insights and Learnings from Comparative LCAs on Side Streams in Switzerland	Stefanie Maeder, Intep Integrale Planung GmbH
11:35	Realistic Potential of Valorising Side Streams	Claudio Beretta, ZHAW
11:55	Discussion	all
12:10	**Interactive Lunch Break**	
13:40	**Interactive Break Recap**	
13:50	**Session 3: Case Studies**	**[Claudio Beretta]**
13:50	Upcycling of Brewer's Spent Grain: Life Cycle Sustainability Assessment of the CHEERS Biorefinery	Dimitri Chryssolouris, ZHAW
14:10	Comparative Screening Life Cycle Assessments of Okara Valorisation Scenarios	Karina Rohrer & Lena Breitenmoser, FHNW
14:30	From By-Product to Food Innovation: Upcycling Side Streams into Novel Foods	Corinna Bolliger, ZHAW
14:50	Nutritional Losses in Food Waste and Sidestreams, and the Environmental Impacts of Overconsumption	Silvia Zingale, Agroscope
15:10	Discussion	all
15:30	**Interactive Coffee Break**	
16:00	**Interactive Break Recap**	
16:10	**Session 4: Short Presentations**	**[Matthias Stucki]**
16:10	Food Waste to Reduce Food Waste: LCA Insights from the AgriBioPack Project	Agata Costanzo, Sant'Anna School of Advanced Studies (online)
16:20	LCA of the Multivalorisation Biorefinery of Botanical Ingredients in the Project SustaiNext	Adriana Díaz, ECODESIGN company
16:30	Expired Food: A Proven Source of Energy	Mahtab Pak, UMWELT s.r.l
16:40	LCA of Food System Wastes Valorised in Peat-reduced Horticultural Substrates	Reto Deuber, ZHAW
16:50	Closing reflections and outlook	Matthias Stucki & Claudio Beretta, ZHAW
17:05	**End of LCA Forum**	

Practical information

Registration

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

https://ethzurich.eventsair.com/lca2026/registration/Site/Register

To register you need to create a profile, which is done in very few steps and is self-explanatory. In case you cannot 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 participation category.

Please follow this link for the programme and updates.

For all further questions regarding the registration process, please do not hesitate to contact: lcaforum@ethz.ch

Lunch

We will have lunch at the ZHAW restaurant in the building GD. Please indicate to the cashiers that you are attending the LCA Discussion Forum, so that they can add your order to the event tab. The registration fee only covers the menu of the day or buffet. Drinks other than tap water as well as any other items in the ZHAW restaurant are at your own expense. A vegetarian meal is always on offer.

Location: Wädenswil (not ETH Zürich!)

Pay attention that this DF will not take place at ETH in Zürich, but in the **main auditorium GA203** in the building GA of the **Campus Grüental, Zürich University of Applied Sciences (ZHAW), 8820 Wädenswil**.

How to get to the DF location in Wädenswil

From Wädenswil train station, you can walk uphill (20 min.) or take a bus. The bus stop is called "Wädenswil, Campus Grüental". Please find your most convenient connection here: www.sbb.ch. If you use a car, please follow the signs to the official parking spaces or study the map provided below.

The auditorium, in German "Aula", is close to the main entry of the ZHAW Campus Grüental (GA), see https://tinyurl.com/ZHAWGA.

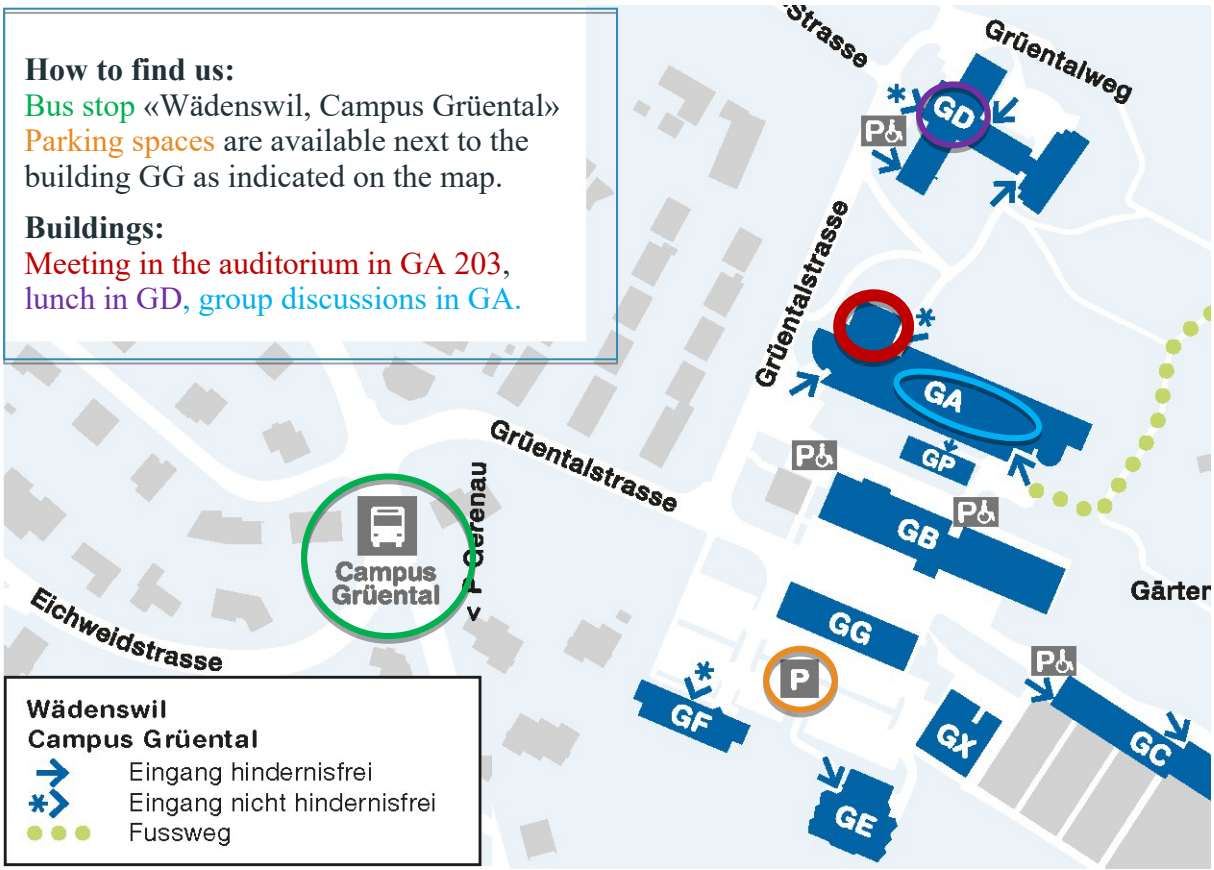
DISCUSSION FORUM ON LIFE CYCLE ASSESSMENT

CHEERS

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How to find us:
Bus stop «Wädenswil, Campus Grüental»
Parking spaces are available next to the building GG as indicated on the map.

Buildings:
Meeting in the auditorium in GA 203,
lunch in GD, group discussions in GA.



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

carbotech
Environmental Projects and Consulting

ecoinvent

Empa
Materials Science and Technology