

# Welcome to openLCA.conf 2026

22 - 23 April  
ufaFabrik  
Berlin

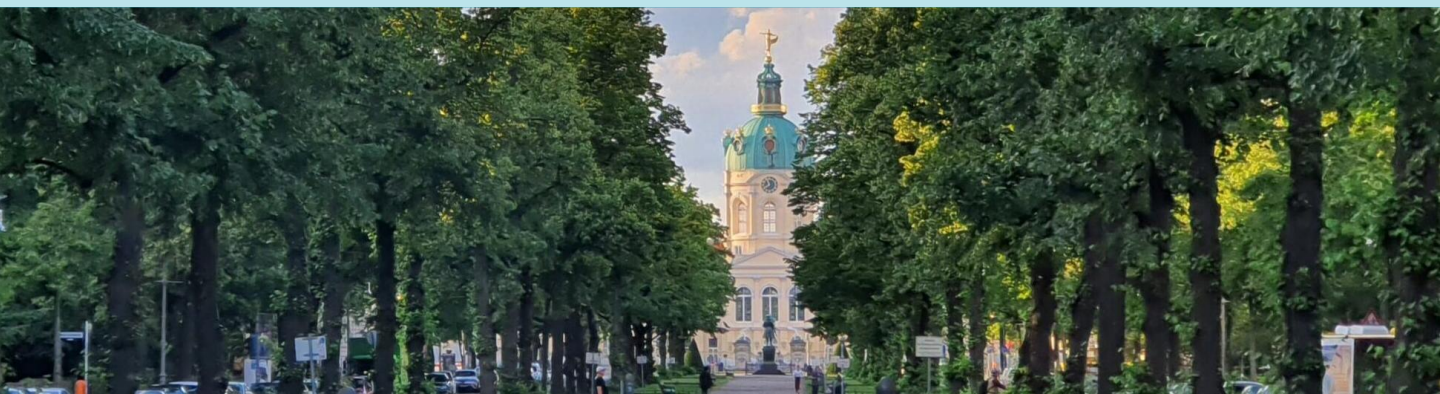
Looking forward to seeing you in Berlin!



GreenDelta



HQLCD 海科数据



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# 22 April

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09:00-9:45	Conference Opening and Keynote Speech by Andreas Citroth (GreenDelta) - Linking LCA with reality			
09:45-11:00	T1.1 Agriculture & Bioeconomy	T11.1 - Energy Systems	T8 - When Regulations Collide: Managing Multiple Sustainability Frameworks in Practice	
11:00-11:30	Coffee break			
11:30-12:45	Challenge 3: From Silos to Systems: Making LCA Business-Relevant - Data Maps, Regulation & Scalable Product Accounting	Challenge 4: Is there a good way to model biogenic carbon in LCA?	Challenge 1: Barriers to LCA Adoption in the Global South: Beyond Free Tools	Challenge 2: Professional Education with openLCA
12:45-14:00	Lunch break			
14:00-15:30	T1.2 Agriculture & Bioeconomy	T11.2 - Energy Systems	T10 - System Dynamics and LCSA	
15:30-16:30	Poster session			
16:30-17:30	T6.1 Innovation in LCA Data Creation	T4 Advancing EPDs: Data Quality, Automation, and Integration	Challenge 5: Circularity Challenge - one step back	Challenge 6: openLCA in practice: feature review and user feedback
19:00	Conference dinner at Hallesches Haus			

# 23 April

23.04	THEATER	NEUSS	SEMINAR
08:30-9:00	Arrival, registration and coffee		
09:00-9:45	Keynote speech by Nicola Ferrara (JRC) - Advancing the Environmental Footprint data framework: principles and strategy		
09:45-11:00	T6.2 LCI Databases	T2.1 Social LCA Case Studies	T3 Sustainability Assessment of Plastics
11:00-11:45	Coffee & Posters		
11:45-13:00	T6.3 Validating LCA Datasets	T2.2 Social LCA Case Studies	T9 - Buildings: LCAs and climate mitigation strategies
13:00-14:15	Lunch break		
14:15-15:15	Panel – What are the consequences of policy in industry right now? Effects on real companies. Alexander Flekler (Wago), Johnson Gui (HiQLCD), Jonas Hoffmann (GreenDelta), Jonathan Forbes (Below280), Paige Weiler (ERG)		
15:15-15:30	Coffee break		
15:30-16:30	T7 openLCA Tools and Integration: Lessons Learned and Shared Experiences		T12 - End-of-Life Strategies
16:30-17:00	Closing		
17:00-19:00	APER0 - good bye drinks, alcohol free options too		

# 22<sup>nd</sup> April – first half of the day

22.04	THEATER			NEUSS			SEMINAR			ATELIER
08:15-8:55	Arrival & Registration									
09:00-9:45	Conference Opening and Keynote Speech by Andreas Ciroth (GreenDelta) - Linking LCA with reality									
	T1.1 Agriculture & Bioeconomy			T1.1 - Energy Systems			T8 - When Regulations Collide: Managing Multiple Sustainability Frameworks in Practice			
	ID	Title	Authors	ID	Title	Authors	ID	Title	Authors	
	104	Carbon Footprint of Soy-Based Products Under PEFCR	Marina Silva, Marcela Lange, Karina Amaral, Daniel Silva, Paulo Zanardi, Gabriel Barboza, Patricia Suguí, Eduarda Veiga, Gabriel Faria; GSS Impact Development Company	83	Comparative LCA of hydrogen production pathways	Zaheer Ali, Yasaman Nosrat Tajoddin, Eleonora Cordioli; Fondazione Bruno kessler (FBK)	11	Beyond Double-Reporting: Building Trust in PCF Across Diverse Frameworks	Jonas Johannisson, Daniel Philipp Müller; GreenDelta	
	17	Applying LCA to shape climate smart cocoa development: GHG reduction scenarios and socio-economic outcomes in Vietnam	Dinh Sy Khang, Ngo Huu Khanh Linh; UEH University	92	Benchmarking the Environmental Performance of Hydrogen Production in China: A Harmonized Life Cycle Assessment of 14 Representative Pathways	Simeng Chen, Huimin Chang, Ming Xu; Tsinghua University	42	Life cycle assessment in standards and legislation: navigating towards balanced degrees of freedom	Daniel Philipp Müller; TÜV SÜD Product Service GmbH	
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	23	The Missing Impact: A Case Study Investigation into Assessing Biodiversity Impacts in LCA through Antarctic Krill Harvesting and Brazilian Soya Production	Helen Brown, Gladys Castillo; Below28o	122	An open-source model for assessing the environmental and economic sustainability of hydrogen across Canadian provinces	Tongfei Xu, Alexandre Bouffard, Sarah M. Jordaan; McGill University	132	Life cycle thinking: Driving the industry development	Juanjuan Yao; IVL China	
				55	Green Hydrogen Production in Arid Regions: A Life Cycle Assessment of DAC-SOEC Integrated System	Katia D. S. Gomes, Peter Letmathe, Jacqueline Lorenz; RWTH Aachen Universität	67	Grounding future regulations into common standard for pharmaceuticals LCA: hands-on comparison of UK standard and French guideline.	Veronica Di Battista, Kranti Navare, Chrystelle Verhoest; Arcadis Germany GmbH	
11:00-11:30	Coffee break									
11:30-12:45	Challenge 3: From Silos to Systems: Making LCA Business-Relevant - Data Maps, Regulation & Scalable Product Accounting			Challenge 4: Is there a good way to model biogenic carbon in LCA?			Challenge 1: Barriers to LCA Adoption in the Global South: Beyond Free Tools			Challenge 2: Professional Education with openLCA
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22<sup>nd</sup> April – 14:00 to 16:30

	THEATER			NEUSS			SEMINAR		
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	3	Holistic and Integrated Life Cycle Sustainability Assessment of Community Supported Agriculture: A Case Study of School Catering in Leipzig, Germany	Madeleine Pries, Walther Zeug; Helmholtz Centre for Environmental Research UFZ	117	Iterative Life Cycle Assessment: Methodology for Resolving the Carbon Intensity of Self-Consuming Products	Kat Sale, Tracey Ziev; Carbon Solutions LLC	33	Measuring Circularity under Planetary Constraints: Circular Economy Indicators in a Holistic Life Cycle Sustainability Assessment of a Belgian Biogas Value Chain	Enrique Perdomo, Walther Zeug; Helmholtz Centre for Environmental Research GmbH UFZ
	38	From residue to resource: consequential LCA of hazelnut shell valorisation pathways	Clara Vasario, Maja Christensen, Sara Gransinigh, Giorgio Cantino; Greenstep	116	Life Cycle Assessment of Ground-Mounted PV Power Plants With and Without Battery Energy Storage Systems in France: Substitution Effects, Operational Shifting, and Infrastructure Synergies	Mila Guerin, Martin Besnier, Paul Grédigui, Gabrielle Tihon; Druantia S.A.S. (Holis)	36	Capturing Long-Term Trade-offs in Coffee Agribusiness: A System Dynamics - Life Cycle Sustainability Assessment of Kintamani Arabica Coffee	Yoga Nugroho, Suhartini Suhartini, Rosihan Asmara, Budi Setiawan; Universitas Teuku Umar
	27	Prospective Life Cycle Assessment of essential oil production under evolving German electricity mixes: A Hydrodistillation case study on Melissa officinalis.	Hem Thothawala, Leonie Bahrs; Fraunhofer IKTS	60	Credible Environmental Footprinting of China's Provincial Power System Based on Best Available Evidence	Ruoxi Xiong, Ziqi Wang, Simeng Chen, Huimin Chang, Jianchuan Qi, Nan Li, Ming Xu; Tsinghua University	103	Applying system dynamics sustainability assessment (SDSA) to circular economy solutions in cities and regions: 3 different cases	Alexander Koch, Tomas Slany, Andreas Ciroth; GreenDelta
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	51	Poster highlight: Life cycle assessment and techno-economic analysis for 1G ethanol production plant upgrading	Ouwen he, Luana dessbesell; Aalto university	90	Poster highlight: Regionalized Life Cycle and Circularity Assessment of NMC Cathode Production: Global, Canadian, and Recycling Scenarios	Armita Mohammadi, Sarah Jordaan, George Demopoulos, Krystal Davis; McGill University	73	Can I Trust My Model? A Validation Approach for Sustainability Assessment with System Dynamics	Tomas Slany; GreenDelta
15:30-16:30	Poster session								

22<sup>nd</sup> April – 16:30 to end

		THEATER		NEUSS		SEMINAR	ATELIER	
		T6.1 Innovation in LCA Data Creation		T4 Advancing EPDs: Data Quality, Automation, and Integration				
	<b>ID</b>	<b>Title</b>	<b>Authors</b>	<b>ID</b>	<b>Title</b>			
16:30-17:30	45	LLMs4LCA: Large-Language Model-Powered Structured Output Generation for the Harmonization of Life Cycle Assessment Studies	Dianka Alexieva, Mario Figueiredo, Ricardo Teixeira; Associação Do Instituto Superior Tecnico Para A Investigação E Desenvolvimento - Ist-Id	87	Towards Digitalization of EPDs: Challenges and Opportunities – A Program Operator’s Perspective	Gaurav Aher, Shreya Pai; EPD International AB	<b>Challenge 5: Circularity Challenge - one step back</b>	<b>Challenge 6: openLCA in practice: feature review and user feedback</b>
	46	Toward Scalable LCA Inventories: An End-to-End Automated Pipeline for Converting Heterogeneous Technical Narratives into Standardized Process Data	Si Zhang, Jing Guo, Nan Li, Ming Xu, Chuke Chen, Hang Yang; Tsinghua university	57	Scaling EPDs: From Verified Type III to Enterprise Automation — A Joint Project by Fraunhofer IEM and WAGO	Felix Siems, Alexander Flekler; Fraunhofer IEM		
	110	From Data Gaps to Interoperability: The ORCHESTER Data Ecosystem	Chanchan Li, Priskila Foresto, Lukas Morand; Fraunhofer IWKS	39	Towards Automated EPD Generation: A Python Framework for Integrated Upstream Modelling in openLCA	Gianmarco Gottardo, Giovanni Dotelli; Politecnico di Milano		
	22	Does the Digital Product Passport meet its sustainability expectations? Life cycle assessment of blockchain based DPPs in the French EEE sector	Riccardo Losa, Franck Aggeri; Mines Paris - PSL	74	The GCCA EPD tool: An industry-wide solution for cement and concrete products based on openLCA	Friedrich Halstenberg, Bach Tran, Megha Mittal; GreenDelta		
19:00	Conference dinner at Hallesches Haus							

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08:30-9:00	Arrival								
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09:45-11:00	T6.2 LCI Databases			T2.1 Social LCA Case Studies			T3 Sustainability Assessment of Plastics		
	ID	Title	Authors	ID	Title	Authors	ID	Title	Authors
	54	Building Regionalized Unit-Process Inventories for Emerging Economies: A Practical Example for LCI Dataset Creation and Validation	Kaccny Carvalho, Ronja Hermanns, Oliver Stollenwerk, Raoul Meys; Carbon Minds	16	Social risks in circular textile transitions: Combining site-specific and generic S-LCA for fibre-to-fibre recycling between Europe and global supply chains	Anubhuti Bhatnagar, Kirsi Niinimäki; Aalto University	49	LCA study on a carbon-negative PLA waste recycling method incorporating machine learning and transfer learning	Ouwen he; Aalto university
	32	BAFU:2025: open-access cross-sectoral life-cycle inventory database	Jens Lansche, Pierryves Padey, Marine Manche, Josef Känzig; Bundesamt für Umwelt BAFU	14	Methodological improvements for S-LCA in openLCA through sectoral product segmentation: Application to methanol production	Mario Alonso-Muñoz, Jonathan Albo, Marta Rumayor, Antonio Domínguez-Ramos; Universidad de Cantabria	108	STOPP - Life Cycle Sustainability Assessment of Reusable Plastic Food Packaging	Ebyan Rezgui, Julia Cilleruelo Palomero; GreenDelta
	97	Developing MexiLCA: An Open Mexican Life Cycle Inventory Database for Enhanced Regional Sustainability Assessment	Patricia Güereca-Hernández, Alejandro Padilla-Rivera; Universidad Nacional Autónoma de México	48	Advancing Social Life Cycle Assessment for Renewable Methanol: Integrating Local Stakeholder Insights with PSILCA in openLCA	Tiago Lopes, Joana Ortigueira, António Vilanova, Laura Pereira, Francisco Gírio; Laboratório Nacional de Energia e Geologia, I.P.	5	Increased sorting efforts and hot washing for better substitution potential – The key to circular plastics?	Lukas Zeilerbauer, Moritz Mager; Energieinstitut an der Johannes Kepler Universität Linz
	82	An atomic LCA data space for mapping and LCA reference data management	Andreas Ciroth; GreenDelta	53	Social sustainability assessment for new oil-water repellent biobased coatings applied to food and textile sectors	Rocío Pena Rois, Carlos Bernárdez Casas, Daniel Otero Calleiras; AIMEN	109	Life cycle assessment of a reusable shower packaging system	Joana Beigbeder, Florence Lachet-Touya; IMT Mines Ales
128	From Data Availability to Data Usability: How AI Is Transforming Chinese LCA Database	Johnson Gui; HIQLCD	64	Integrating Social Value into Circular Waste-to-Energy Strategies for Humanitarian Settings: A Life Cycle Sustainability Approach	Marta Rumayor, Beheshta Dawood, Perrine Sebastien, Carolina Szablewski, Carla Bartolomé, Clara Casado-Coterillo; University of Cantabria	124	Rethinking Additives in Plastic LCA: Predictive openLCA Workflows for an underrepresented Material Class	Jonas Hoffmann; GreenDelta	
11:00-11:45	Coffee & Posters								
11:45-13:00	T6.3 Validating LCA Datasets			T2.2 Social LCA Case Studies			T9 - Buildings: LCAs and climate mitigation strategies		
	ID	Title	Authors	ID	Title	Authors	ID	Title	Authors
	81	Validation of industrial data for LCI dataset	Lingjie Ji, Andreas Ciroth; GreenDelta					5 min introduction by session Chairs	
	118	Detecting Secondary Data Issues in openLCA: Data Quality and Stewardship in LCA Databases	Jonas Hoffmann; GreenDelta	88	How Sodium-Ion Batteries Lower Social Risks in the Material Extraction Phase? An S-LCA Perspective	Dilshan Sandaruwan Premathilake, Bismark Razak Haruna, Friedrich B. Jasper, Manuel Baumann, Jens Peters, Marcel Weil; Karlsruhe Institute of Technology	99	Case Study on Developing National LCI Data for Korean Wood Products through LCA Analysis	Min-Ji Kim, Sae-min Yoon; National Institute of Forest Science
	120	Assessing Modelling Approaches in Chemical LCA Databases to Quantify Cumulative Uncertainty	Max Frederik Bringmann, Jonas Hoffmann; GreenDelta	40	Combining Social Acceptance and Social Life Cycle Assessment? A case study within PSILCA	Sally K. Springer, Christina Wulf, Petra Zapp; Forschungszentrum Jülich GmbH	30	Dynamic climate change assessment: a method to accurately evaluate the effect of carbon storage in building materials	Vladimir Zieger, Thibaut Lecompte, Simon Guihéneuf, Mathilde Louërat, Manuel Bazzana; Université Bretagne Sud
	135	Harmonizing Formats and Managing Uncertainty: Validating and Aligning Diverse LCI Data for the USLCI Database	Paige Weiler; ERG	52	Uncovering the Hidden Costs: Monetizing Environmental and Social Impacts in Fiberboard Production	Hanna Sofia Leiter, Lea Ranacher; Kompetenzzentrum Holz GmbH	106	Carbon storage in the Swiss buildings stock, methodological pathways and accounting approaches	Cornelia Stettler; Carbotech AG
80	Data quality management in the MSDB database - what are good LCA datasets	Andreas Ciroth; GreenDelta	105	Social Life Cycle Assessment of the platinum value chain for the EU economy	Jure Gramc, Rok Stropnik, Mitja Mori; University of Ljubljana	1	Accounting for Permanence: Rethinking Carbon Storage Methodologies for Bio-based Building Materials	Mili Jain, Anuja R, Tashit Talwar; CEPT University	
13:00-14:15	Lunch break								

# 23<sup>rd</sup> April – first half of the day

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15:15-15:30	Coffee break					
	T7 openLCA Tools and Integration: Lessons Learned and Shared Experiences		T12 - End-of-Life Strategies			
	<b>ID</b>	<b>Title</b>	<b>Authors</b>	<b>ID</b>	<b>Title</b>	<b>Authors</b>
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	9	NearUser LCA – a LCA tool for process specialists	Dieter Horwatitsch, Andreas Betz; LKR Leichtmetallkompetenzzentrum GmbH	91	Life Cycle Environmental Impact and Disposal Strategy Selection of Wind Turbine Blades Based on Uncertainty Analysis	Ziqi Wang, Changqing Xu, Huimin Chang, Jing Guo, Cuiyang Feng, Ruru Han, Jian Zuo, Nan Li, Ming Xu;
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	134	Making LCA easier: onlineLCA as a tool to bring LCA expertise into enterprise workflows	Chiara De Grandis; GreenDelta	43	Environmental Impacts Assessment of Photovoltaic Panel Waste Management in South Korea by LCA	Shella Angelina Herlintama, Haein Cho, Yong-Chul Jang, Howon Lee, Donggyu Shin, Taeon Ryu, Seoyoung Kim, Kyunghoon Choi; Chungnam National University
16:30-17:00	Closing					
17:00-19:00	APER0 - good bye drinks, alcohol free options too					

# Posters I

ID	Title	Authors
<b>T1 Agriculture &amp; Bioeconomy - Poster</b>		
51	Life cycle assessment and techno-economic analysis for 1G ethanol production plant upgrading	Ouwen he, Luana dessbesell
72	Life Cycle Assessment with Nutritional Approach: A Case Study of Circular Gluten-Free Bread	Leire Cantero-Ruiz de Eguino, Victoria Fernández-Tucci, Jonatan Miranda, Estitxu Villamor, Ortzí Akizu-Gardoki, Jesus Salmeron, Olaia Martinez
<b>T2 - Social LCA Case Studies</b>		
126	Comparative Social Life Cycle Assessment of biohydrogen, biomethane and diesel used in the Mexico City's Metrobús transportation system: a comparison between two databases	José Israel Olivares-Torres, Leonor Patricia Güereca-Hernández, Alejandro de Jesús Padilla-Rivera
64	Integrating Social Value into Circular Waste-to-Energy Strategies for Humanitarian Settings: A Life Cycle Sustainability Approach	Marta Rumayor, Beheshta Dawood, Perrine Sebastien, Carolina Szablewski, Carla Bartolomé, Clara Casado-Coterillo
41	Social Risk Life Cycle Assessment of Emergent Bio-bleaching Process for Wearable Electronic Textile	Lola Eelen, Karel Van Acker, Sofiane Guessasma
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44	A comparative life cycle assessment of fossil fuel-based plastic and nature-based single-use wet wipes	Haein Cho, Howon Lee, Donggyu Shin, Shella Angelina Herlintama, Yong-Chul Jang, Taeon Ryu, Seoyoung Kim, Kyunghoon Choi
34	Reusing Shredded Waste Cable Insulation in Geopolymer Slabs: Life Cycle Assessment, Composite End-of-Life Prediction, and Introduction of Longevity and Loop Factors	Barbara Horvat
121	Toward circular plastics: Life-cycle-guided design PLA nanocomposites reinforced with bio-derived nano-fibrils and montmorillonite	Maria-Paraskevi Belioka
7	Analyzing the environmental impacts and circularity of biobased colloids and their composite plastic materials	Elisabet Quintana, Rikardo Minguez, Estibaliz Saez de Camara Oleaga, Justin O. Zoppe, Erlantz Lizundia
35	Closing the plastic packaging loop: Assessing the Environmental Impact of Circular Economy Innovations in DRS and RVM	Adelina-Ionela Matei, Bianca Ifrim, Catalina Boca, Iulia Petre, Ecaterina Matei
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56	From Roots to Rays – Holistic and Integrated Life Cycle Sustainability Assessment of Agrivoltaics	Raphaela Ari Kießler, Matthew Berwind, Daniela Thrän, Walther Zeug, Enrique A. Perdomo E., Christina Zinke

# Posters II

ID	Title	Authors
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19	Life Cycle Assessment of a Tank Thermal Energy Storage (TTES) Integrated into a District Heating Network	Helene Mihatsch, Simon Moser, Lukas Zeilerbauer
13	LCA of precious metal recycling of PEM electrolysis cells using the material criticality indicator of the openLCA criticality package	Hannah Aster, Lukas Zeilerbauer
65	Assessment of Electrolytic Hydrogen Carbon Intensity under Changing Power Mix and Nuclear-Based Supply Scenarios in Korea	Soyeong Seol, Sanghoon Park, Bongjae Lee
61	Analysis of the Contribution of Hydrogen Energy Transition in Korea's Energy-Intensive Industries	So Jeong Jang, Soo Young Yun, So Yeong Seol, Dong Yoon Kim, Bong Jae Lee
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62	From Bauxite to Aluminium: A Life Cycle Assessment of Key Processing Stages	Irena Subotikj
115	Environmental Impact of Solid Phase Peptide Synthesis: Simulation-Based Life Cycle Assessment	Mutaz Alnaimat, Nora Schönberger, Ashak Parvez, Sabrina Hedrich
100	Assessing the Carbon Reduction Potential of Wood-Based Furniture	Sae-Min YOON, Min-Ji KIM

# Venue

## ufaFabrik

[Viktoriastr. 10-18, 12105 Berlin](#)

Our host location is ufaFabrik, a cultural and social centre in the south of Berlin. This former movie lab is now home to 200 employees and 30 residents working on projects connecting social work, culture and ecology.



# Venue map

## ufaFabrik

THEATER.  
+ NEBENRÄUME  
RAUMPLAN



# Conference Dinner

## Hallesches Haus

[Tempelhofer Ufer 1, 10961 Berlin](#)

Directions from ufaFabrik: Metro line U6 from Ullsteinstraße to Hallesches Tor (direction U Kurt-Schumacher-Platz).

Metro station (U-bahn) near Hallesches Haus: Hallesches Tor

...this year, we are bringing you a taste of Berlin music too!



# Sponsors

## Life Cycle Sponsors



The International EPD System offers credible Environmental Product Declarations (EPDs) that transparently communicate the environmental performance of products and services based on rigorous life cycle assessment (LCA), supported by a science-based methodology and robust third-party verification to ensure reliability and integrity. IVL has Sweden's broadest environmental profile and interdisciplinary expertise across environmental science, engineering, and social sciences. It works on complex projects together with industry, government, and the research community to drive the transition to a sustainable society. IVL does this by turning science into reality, environmental challenges into opportunities, and linear processes into a circular economy.

## GreenDelta

GreenDelta is an independent consultancy and software development company based in Berlin, Germany. We specialize in Life Cycle Assessment and sustainability and identify improvements for products and organizations. We offer a combination of tools, methods, technical resources, and expertise to benefit clients and contribute to progress and innovation in sustainability. GreenDelta is the developer of openLCA

# Sponsors

## Life Cycle Sponsors



Forum for Sustainability  
through Life Cycle Innovation

The Forum for Sustainability through Life Cycle Innovation (FSLCI) is the global community for life cycle professionals. It brings together practitioners, researchers, consultants, industry experts, and policymakers who apply Life Cycle Assessment and related approaches to understand and improve the sustainability of products, services, and systems. Through conferences, workshops, summer schools, webinars, and its online community platform, FSLCI connects people across continents, disciplines, and career stages to exchange experience, develop competencies, and collaborate on advancing life cycle practice. By joining FSLCI, members become part of an active international network dedicated to strengthening methods, supporting professional development, and collectively advancing life cycle thinking worldwide.

## Process Sponsors



HiQLCD (High-Quality Life Cycle Database) is the largest and most advanced Life Cycle Inventory (LCI) database in China, designed to meet the needs of the Chinese market while serving global sustainability goals. Powered by cutting-edge AI, it provides comprehensive lifecycle data for hundreds of thousands of products, enabling accurate understanding of supply chain carbon footprints and supporting emissions reduction. It also helps evaluate China-based supply chains, build regional databases, and drive eco-design initiatives.

