



B4C



BIOCHAR AND CIRCULAR CARBON ECONOMY COMPETENCES

PROJECT FUNDED BY THE
EUROPEAN UNION

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B4C project aims at promoting the **Green Deal**, **Sustainable Development** and **Climate Change** Mitigation and Adaptation through Biochar based practical learning applications and projects for the Circular Carbon Economy in the European VET Sector

START DATE: 01/11/2023

END DATE: 31/10/2025



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B4C CPD PROGRAM CONCLUDES SUCCESSFULLY IN GÖTTINGEN.



Empowering Professionals through Biochar Training and Circular Carbon Strategies

The B4C Continuing Professional Development (CPD) program was held from 7 to 11 April 2025 in Göttingen, Germany. Designed as an immersive and cross-sectoral training initiative, the program brought together professionals from agriculture, horticulture, construction, and environmental sectors. Over the course of five days, participants engaged in an intensive exploration of biochar and its potential to drive sustainable local and regional development within the framework of the Circular Carbon Economy (CCE).

The program offered a dynamic combination of theoretical insights and applied learning. Through expert-led sessions, participants deepened their understanding of biochar's role in carbon retention, soil regeneration, and material innovation. A series of hands-on workshops—structured around Design Thinking methodologies—encouraged the development of actionable project ideas tailored to diverse regional contexts.

One of the highlights of the week was a field excursion to the Eichenberg Biochar TechLab, where participants experienced real-world applications of biochar technologies and had the opportunity to exchange ideas directly with leading practitioners. This on-site learning complemented the thematic sessions and fostered a deeper appreciation of how circular strategies can be implemented at scale.

The agenda progressed from foundational concepts to collaborative project development. Early sessions introduced the core principles of biochar and its relevance to the CCE. Midweek, the focus shifted to thematic deep-dives and collaborative ideation. The final days were devoted to refining prototypes and presenting project concepts, fostering a constructive environment for peer feedback and professional growth.

To ensure continued engagement and support, participants remain connected through a dedicated virtual helpdesk. This ongoing platform enables monthly exchanges, mentoring, and follow-up on the development of local pilot projects, extending the impact of the training well beyond the event itself.





Biochar and Sustainable Cities : Luxembourg Hosts B4C Event | 18–19 June 2025

Following the successful training in Göttingen, the next B4C event will take place in Luxembourg, offering two days of exchange, insight, and hands-on learning focused on biochar and the Circular Carbon Economy.

The program opens **on 18 June at the IFSB in Bettembourg** with the conference **“Biochar and Sustainable Cities – Innovations and Feedback.”** European experts will examine biochar's potential in construction, climate adaptation, and urban sustainability. Keynotes will include Tim Scholze (BlinC) on B4C's systems approach, Dr. Ines Juvan-Beaulieu (Novocarbo) on biochar production and business models, and Silvia Venditti (University of Luxembourg) on biochar in wastewater treatment. Companies like Karp-Kneip and Contern SA will present applications in asphalt and concrete. The morning concludes with a site visit to a biochar-asphalt pilot project.

In the afternoon, **a workshop co-led by B4C** will focus on raising public awareness around biochar and CCE through participatory tools and community engagement strategies.

On 19 June, the event continues with **a visit to Karp-Kneip's asphalt plant** in Cents to observe biochar integration in road infrastructure. The day concludes with a hands-on workshop in Ettelbrück, embedded in the LUGA – Luxembourg Urban Garden exhibition. This outdoor session will demonstrate biochar solutions in an urban sustainability context.

These two days will connect research and practice, supporting climate-positive innovation across Europe's cities and regions.

What is LUGA? Luxembourg Urban Garden: A Living Lab for Urban Sustainability

LUGA (Luxembourg Urban Garden) is a six-month open-air exhibition, running from 7 May to 18 October 2025, across five urban and peri-urban sites in Luxembourg, including Ettelbrück and key green spaces in the capital.

Conceived as a transdisciplinary platform, LUGA serves as a living laboratory for applied research and education in urban sustainability. It integrates landscape architecture, ecological engineering, and public engagement to explore nature-based solutions, circular practices, and resilient urban design.

Through thematic installations, demonstrator projects, and interactive learning spaces, LUGA offers public visitors and educators a real-world environment to test and communicate sustainable urban strategies. The exhibition supports pedagogical activities, field-based research, and knowledge transfer between academia, practitioners, and the broader public.



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