



B4C



BIOCHAR AND CIRCULAR CARBON ECONOMY COMPETENCES

**PROJECT FUNDED BY THE
EUROPEAN UNION**

AGREEMENT NUMBER:

2023-1-DE02-KA220VET-000155337

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: 30/04/2026



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FROM PILOTS TO PRACTICE: BIOCHAR IN ACTION ACROSS EUROPE



The B4C project demonstrates how biochar and Circular Carbon Economy (CCE) concepts can move from theory into real educational and professional practice. Across Europe, partners have implemented pilot activities engaging learners, professionals, and communities in exploring sustainable carbon solutions.

At IFSB, biochar was introduced in the construction sector through a combination of theory and hands-on experimentation. Participants worked with biochar-based concrete, gaining practical insights while addressing the challenge of balancing sustainability with material performance.



In agriculture, DEULA focused on slurry management, combining Design Thinking with experimentation. Learners explored nutrient cycles, tested biochar applications, and developed practical solutions, strengthening both technical and problem-solving skills.

ASTREDHOR brought biochar to a wider professional audience through an open-day event in France, raising awareness among landscapers, municipalities, and environmental experts. The interactive format successfully introduced biochar as a nature-based solution for urban and green environments.

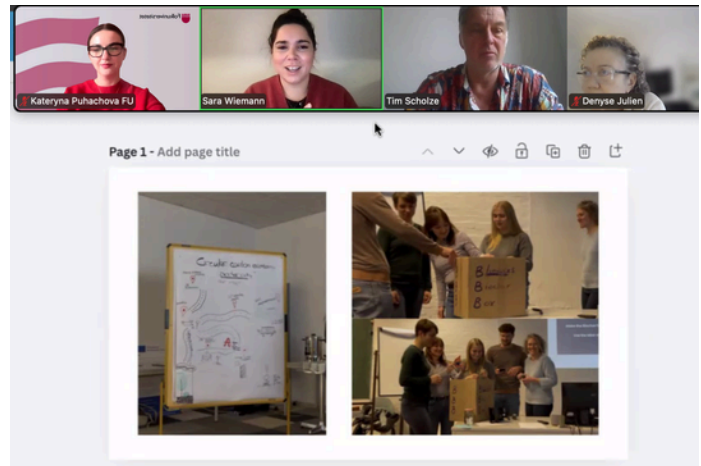


At Folkuniversitetet, the VET EDU pilot focused on empowering VET teachers by supporting them in integrating biochar into curricula through collaborative activities, module development, and methodological recommendations, strengthening the long-term impact on vocational education. In parallel, the Biochar Awareness Hub added a strong community dimension, with students designing interactive learning spaces and engaging the public.



Empowering Carbon Managers for the Circular Economy

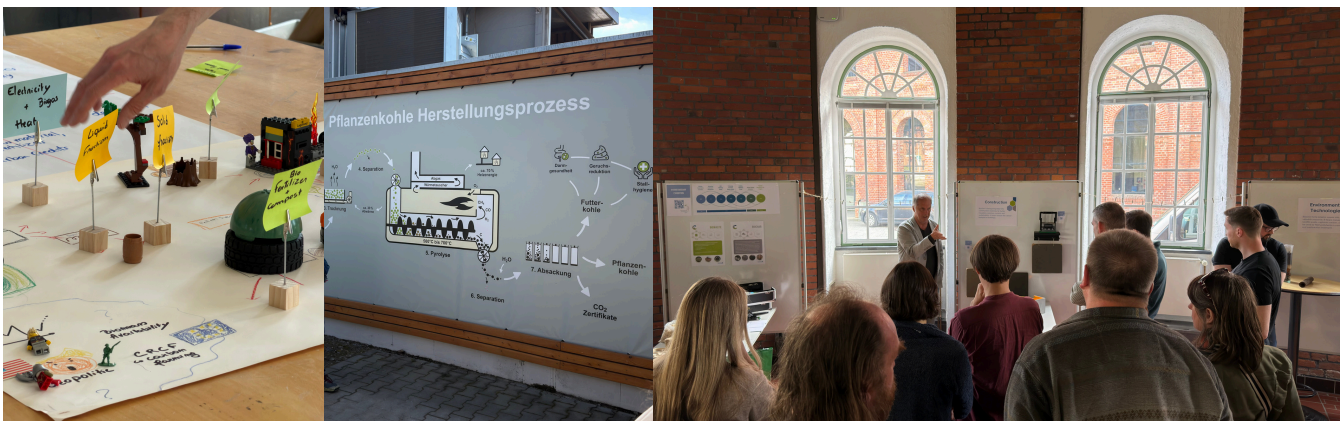
Alongside these pilot activities, the B4C Carbon Manager Course plays a central role in building the competences needed to implement circular carbon systems in practice. The course provides participants with a comprehensive understanding of biochar, carbon management processes, and regional value chains. It combines theoretical sessions with collaborative work, where participants develop real-life cases and calculate the carbon impact of different solutions.



Through this process, learners gain the ability to design integrated systems that transform residual biomass into long-term carbon sinks and valuable products, while connecting environmental, economic, and social dimensions.

B4C at the THREE C Network Conference 2026

The project's momentum was further strengthened through participation in the THREE C Network Conference in Kassel, Germany, held in April 2026. This event brought together experts, practitioners, and stakeholders from across Europe to explore how circular carbon solutions can be implemented at regional level. The conference combined workshops, site visits, and networking activities, allowing participants to engage directly with biochar production processes, agricultural applications, and innovative construction solutions. By connecting different sectors and perspectives, the event created a platform for developing concrete ideas and partnerships that can drive the transition toward circular carbon economies.





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