



## Green & Energy-Efficient Building Design for UA Renovation (GreenBUILD)

Project No.: 101237563-GreenBUILD-ERASMUS-EDU-2025-CBHE  
ERASMUS-EDU-2025-CBHE-STRAND-2

Newsletter № 1

March 2026

# Green BUILD



Co-funded by  
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## **A Message from Prof. Dr. Oktay ŞAHBAZ, GreenBUILD Consortium Representative**

*“Peace at Home, Peace in the World.” © Mustafa Kemal Atatürk*

### **Prof. Oktay Şahbaz**

*Project Coordinator*

Dear GreenBUILD Partners, Stakeholders and Readers,

GreenBUILD addresses one of the most important challenges for both Ukraine and Europe: how to prepare a new generation of professionals capable of designing, renovating and managing buildings in a greener, more energy-efficient and resilient way. For Ukraine, this project is closely linked to recovery, reconstruction and the modernisation of the built environment. For Europe, it reflects a shared commitment to sustainability, climate responsibility and stronger cooperation in higher education.

The value of GreenBUILD lies not only in developing new study programmes or introducing modern technologies. It is also about creating a common space where universities, experts, industry representatives and public stakeholders can work together, exchange experience and turn knowledge into practical solutions. Sustainable reconstruction requires more than technical decisions – it requires education, trust, cooperation and a clear vision of the future.

As a consortium, we believe that science, education and international partnership are powerful foundations for progress. GreenBUILD brings these foundations together to support Ukraine's green recovery and to contribute to a more sustainable, peaceful and resilient future for Europe. I sincerely thank all partners for their commitment, professionalism and shared responsibility in moving this important project forward.

*Prof. Dr. Oktay ŞAHBAZ*

## **In this issue**



### **GREEN RECOVERY**

How GreenBUILD supports sustainable and energy-efficient reconstruction



### **NEW MASTER'S PROGRAMME**

Needs analysis and curriculum design shape future green building education



### **RESEARCH AND SOLUTIONS**

Fresh studies and seminars explore practical tools for better buildings



### **SKILLS AND VISIBILITY**

Stakeholder dialogue and events connect GreenBUILD with industry and Europe



## GreenBUILD Starts with Strong European Recognition

*Selected under Erasmus+ CBHE with a score of 92 out of 100 and EUR 800,000 in EU funding, GreenBUILD is set to modernise construction education across five Ukrainian universities over four years.*

The GreenBUILD project - *Green & Energy-Efficient Building Design for UA Renovation* - has been selected for funding under the Erasmus+ Capacity Building in Higher Education programme. With an excellent evaluation score of **92 out of 100** and a total EU contribution of **EUR 800,000**, the project received strong recognition for its relevance, quality and timely focus on sustainable reconstruction and modern construction education in Ukraine.

Running from **January 2026 to December 2028**, GreenBUILD will support five Ukrainian universities in modernising Master's programmes related to construction, green building design and energy efficiency. The project will also establish GreenBUILD laboratories and resource centres, while offering training activities, workshops and international schools for students and academic staff. These activities are designed to help universities prepare professionals who can contribute to climate-neutral infrastructure and the long-term renovation of Ukraine.

The consortium brings together partners from **Türkiye, Estonia, Sweden, Italy and Ukraine**, with Kütahya Dumlupınar University serving as Project Coordinator and Zhytomyr Polytechnic State University as National Coordinator in Ukraine. The successful selection of GreenBUILD marks an important step for the consortium and confirms the shared commitment of all partners to strengthening higher education, international cooperation and sustainable construction practices.

### Evaluation score

**92** /100



**EUR 800,000**  
Total EU Contribution



**Jan 2026 – Dec 2028**  
Project Duration (3 years)



**5 Universities**  
Supported in Ukraine



**5 Countries**  
Türkiye · Estonia · Sweden · Italy · Ukraine



**GreenBUILD Labs**  
New laboratories & resource centres

## Our partners



LUNDS  
UNIVERSITET



Vinnytsia National  
Technical University



UNIVERSITÀ  
DI PARMA

**TAL  
TECH**



KYIV NATIONAL UNIVERSITY  
OF CONSTRUCTION AND ARCHITECTURE





## GreenBUILD First Coordination Meeting: From Project Idea to Practical Action

*Hosted by Kütahya Dumlupınar University in Türkiye, the kick-off meeting brought the full consortium together for the first time — turning a shared project idea into a concrete working plan.*



**12–16 January 2026**

Five working days



**Kütahya, Türkiye**

Hosted by Kütahya Dumlupınar University



**Full Consortium**

Partners from Ukraine & Europe



**Launch of WP1–WP6**

Implementation phase officially started

The GreenBUILD project officially launched its implementation phase during the Kick-off Meeting held on **12-16 January 2026 in Kütahya, Türkiye**. Hosted by Kütahya Dumlupınar University, the meeting brought together partners from Ukraine and Europe for the first full consortium discussion on the project's goals, structure and first steps. It became an important starting point for turning the project idea into a shared working plan.

Throughout the meeting, partners focused on the practical priorities of GreenBUILD: **modernising Master's programmes** in construction-related fields, developing new laboratories and resource centres, and preparing training activities for students and academic staff. Special attention was given to the project's broader mission - supporting Ukraine's recovery by strengthening education in sustainable, energy-efficient and climate-resilient building design.



*"The meeting created a strong foundation for cooperation and confirmed the partners' common commitment to building modern educational capacity for greener construction in Ukraine."*

The working sessions also helped the consortium agree on coordination procedures, clarify responsibilities within WP1-WP6 and define the first implementation actions, including needs analysis, team formation, curriculum development and laboratory planning. The meeting created a strong foundation for cooperation and confirmed the partners' common commitment to building modern educational capacity for greener construction in Ukraine.

## Key Outcomes of the Meeting

01/

Partners reached full agreement on project goals, coordination procedures and shared responsibilities across all work packages.

02/

Roles within WP1–WP6 were clarified, ensuring every partner knows their contribution to curriculum development, labs and training.

03/

Needs analysis, team formation, curriculum development and GreenBUILD laboratory planning were set in motion.

04/

Partners reaffirmed the mission: preparing specialists for sustainable, energy-efficient and climate-resilient building design to support long-term reconstruction.



## GreenBUILD Research Highlights the Human Side of Sustainable Construction

*The GreenBUILD project highlights that the transition to sustainable construction depends not only on technology but also on people and their professional competences.*

As part of the GreenBUILD project, a scientific article by **O. Hasii and G. Gasii** was published, focusing on the role of human resources in construction companies under increasing sustainability requirements. The publication draws attention to an important idea: green transformation in construction depends not only on advanced technologies, but also on the people who apply them in practice.

The article explains that tools such as **BIM, artificial intelligence, smart sensors and digital twins** can help the construction sector become more efficient and environmentally responsible. However, their real value appears only when professionals have the right skills, understand sustainable decision-making and are ready to work across disciplines. Staff training, continuous learning and a strong organisational culture are therefore essential for successful digital and green transformation.

This publication directly **supports the mission** of GreenBUILD, which aims to strengthen education, practical skills and professional competences in sustainable and energy-efficient building design. By linking research with the project's educational goals, the article shows why the preparation of students, educators and future construction professionals is a key part of Ukraine's long-term green recovery.

### PEOPLE FIRST

Qualified professionals are the key to sustainable construction

### GREEN SKILLS

Education and continuous training support the green transition

### DIGITAL TECHNOLOGIES

BIM, AI, digital twins and smart sensors improve construction processes

### INTERDISCIPLINARY COLLABORATION

Sustainability requires teamwork across different fields

## Further reading:

Hasii O., Gasii G. The Significance of Human Resources in Implementing Business Process Management Approaches in Construction Companies amid Increasing Sustainability Requirements. Scientific Bulletin of Poltava University of Economics and Trade, 2026.

DOI: <https://doi.org/10.37734/2409-6873-2026-1-16>



## GreenBUILD in Kharkiv: First Steps of the University Team

*University Team Moves from Planning to Action: Updating Programs and Refining Equipment.*

On **29 January 2026**, O. M. Beketov National University of Urban Economy in Kharkiv held a working meeting of the team involved in the implementation of the GreenBUILD project. The meeting took place after the first international coordination meeting in Türkiye and focused on moving from general project agreements to concrete actions at the university level. In total, **54 participants joined** the discussion in face-to-face and online formats.

The main focus was on the **first stages of project implementation**: updating Master's programmes in line with European experience, refining the list of equipment needed for educational and research activities, and discussing organisational, technical and financial issues. The meeting became an important step towards the practical launch of GreenBUILD at the university and confirmed its readiness to develop modern education in sustainable and energy-efficient construction for Ukraine's recovery.



### 54 Participants

Hybrid participation of academic and administrative staff



### Curriculum Modernisation

Updating Master's programmes using European experience



### Laboratory Equipment

Planning modern equipment for teaching and research



### Project Planning

Discussion of organisational, technical and financial aspects



### International Cooperation

Applying outcomes of the coordination meeting in Türkiye

## Meeting Outcomes

Project activities officially launched at the university

Equipment requirements identified

Team roles coordinated

Master's programmes under revision

Implementation roadmap discussed



## GreenBUILD Reaches an International Research Audience in Poland

*GreenBUILD was presented to an international scientific audience during a research seminar at the Polish Academy of Sciences, promoting the project's educational and sustainability objectives.*

GreenBUILD was presented beyond the project consortium during the Institute's Seminar "A New Era in Mineral Processing: Navigating Emerging Challenges and Strategic Opportunities", held on **25 March 2026** at the Jerzy Haber Institute of Catalysis and Surface Chemistry of the Polish Academy of Sciences. The presentation was delivered by **Prof. Oktay Şahbaz** from Kütahya Dumlupınar University and gathered around 30 researchers.

Although the seminar focused on mineral processing and emerging research challenges, it also became a valuable opportunity to introduce **GreenBUILD** as an example of international cooperation in higher education. The project was presented in the context of sustainability, curriculum development, academic networking and knowledge transfer. This activity helped strengthen the visibility of GreenBUILD among a wider scientific audience and showed how the project connects education, innovation and the green transformation of engineering-related fields.



*"International dissemination strengthens the impact of GreenBUILD by connecting education, research and sustainability across Europe."*

## Key Outcomes

- ▶ Increased project visibility outside the consortium
- ▶ New opportunities for academic cooperation
- ▶ Promotion of sustainable engineering education
- ▶ Knowledge exchange across disciplines
- ▶ GreenBUILD presented to an international scientific audience





## GreenBUILD at USUST: A Scientific Dialogue on Ukraine's Green Recovery

*GreenBUILD brought together researchers, educators and professionals to discuss innovative solutions for Ukraine's sustainable and energy-efficient recovery.*

On **26 March 2026**, Ukrainian State University of Science and Technologies hosted a dedicated GreenBUILD section within the II International Scientific and Practical Conference “**Current Issues and Development Trends of Management Systems in Modern Conditions**”. The section, titled “Innovative Solutions and Management of Ukraine's Green Recovery”, brought together **22 participants** to discuss modern approaches to sustainable reconstruction, energy-efficient construction and innovative solutions for urban and building infrastructure development.

The section covered a **wide range of topics**, including energy-efficient buildings, heat pumps, BIPV/T systems, circular economy, environmental certification, sustainable tourism, innovation management and practical mechanisms for Ukraine's green reconstruction. The conference became **an important academic platform** for exchanging ideas and showed how GreenBUILD's educational and research initiatives can contribute to a modern, sustainable and energy-efficient approach to rebuilding the country.

*"Research, innovation and education  
are key drivers of Ukraine's sustainable  
reconstruction."*



## GreenBUILD Impact

- Scientific exchange of knowledge
- Promotion of innovative construction technologies
- Support for sustainable urban development
- Strengthening university cooperation
- Contribution to Ukraine's green recovery



## Listening to the Market: GreenBUILD Connects Education with Industry Needs

*GreenBUILD engaged construction professionals to identify the skills needed for Ukraine's sustainable and energy-efficient recovery.*

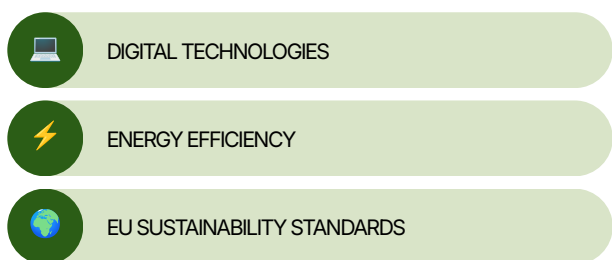


As part of the GreenBUILD project, Ukrainian partner universities conducted stakeholder interviews and consultations with representatives of the construction and engineering sectors. The aim was to better understand what competences future specialists need in order to support Ukraine's green reconstruction, energy-efficient building design and modernisation of the built environment.

The consultations focused on practical industry expectations, including digital technologies, energy-efficient solutions, European sustainability standards, post-war reconstruction challenges and the need for stronger links between education and real construction practice. By bringing the voice of the market into curriculum development, GreenBUILD supports a more practice-oriented model of higher education — one that prepares graduates not only to understand sustainable construction, but to apply it in real recovery and modernisation projects across Ukraine.

*"Sustainable education begins with understanding the real needs of industry."*

## Industry Priorities



## GreenBUILD Impact

- Education aligned with labour market needs
- Better preparation for Ukraine's green recovery
- Practice-oriented learning
- Modernisation of Master's programmes
- Stronger cooperation between universities and industry