



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

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Green BUILD



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Education for a Greener Tomorrow

*Ukrainian universities take on a new role — training professionals for
climate-resilient recovery*

Prof. Kostiantyn Sukhyi

Rector

Ukrainian State University of Science and Technologies

Dear colleagues, partners and friends,

The GreenBUILD project is highly relevant for Ukraine today, as the country is facing the complex task of recovery, modernisation and sustainable reconstruction. Rebuilding is not only about restoring damaged infrastructure. It is also about creating safer, more energy-efficient and environmentally responsible buildings, cities and communities. In this context, universities have a special role: they prepare the professionals who will design, manage and implement these changes.

For Ukrainian State University of Science and Technologies, participation in GreenBUILD is an important step towards strengthening modern engineering and construction education. The project brings together European experience, academic expertise and practical needs, helping universities update educational programmes, develop new learning environments and introduce sustainability-oriented approaches into teaching and research.

GreenBUILD is timely, modern and forward-looking. It responds to real challenges and opens new opportunities for students, teachers, researchers and industry partners. I am confident that through cooperation within the consortium, the project will contribute not only to higher education development, but also to Ukraine's long-term green recovery and European integration.

Prof. Kostiantyn Sukhyi, Rector of Ukrainian State University of Science and Technologies

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DIGITAL TRANSFORMATION

How GreenBUILD connects sustainable construction with digital skills and innovation



ENERGY-EFFICIENT RECOVERY

New discussions on rebuilding damaged buildings in a greener and smarter way



RESEARCH FOR BETTER BUILDINGS

Scientific studies and conferences explore practical solutions for climate-resilient design



CURRICULUM DEVELOPMENT

Needs analysis and course design move the new Master's programme closer to launch



GreenBUILD Goes Digital: DPU Shares Project Ideas at International Conference

Kütahya Dumlupınar University brought GreenBUILD into the global conversation on digital skills and inclusion — connecting the project's goals with wider European debates on education, workforce transformation and lifelong learning.



20–21 May 2026

Two-day hybrid conference



Bratislava & Online

Hybrid format



54 Participants

Researchers, policymakers & practitioners



EDSAW Track

Focus on digital skills & workforce



Kütahya Dumlupınar Univ.

Presenting partner (GreenBUILD Coordinator)

Kütahya Dumlupınar University brought GreenBUILD into the international discussion on digital skills and inclusion during the scientific conference “**Bridging Digital Divides: Skills, Inclusion and Socio-Economic Transformation**”, held on 20-21 May 2026 in Bratislava and online. The hybrid event gathered **54 participants**, including researchers, policymakers and practitioners, to explore how education and training systems can respond to rapid digital change.

The conference provided a valuable platform to connect GreenBUILD with wider debates on skills development, lifelong learning and workforce transformation. Within the **EDSAW track**, particular attention was given to upskilling, reskilling and inclusive participation in the digital economy - themes that closely resonate with GreenBUILD’s focus on modern higher education, capacity building and future-oriented professional competences.



By presenting GreenBUILD-related ideas in this international academic environment, DPU helped strengthen the project’s visibility beyond the consortium and highlighted the role of universities in preparing people for sustainable, digital and socially inclusive transformation. The activity also supported international networking and showed how GreenBUILD fits into broader European conversations on education, innovation and the skills needed for the future.

Why This Appearance Matter

01/ Visibility Beyond the Consortium

GreenBUILD reached an international audience of 54 researchers and policymakers outside the project partnership.

02/ Connected to European Agenda

The EDSA track linked GreenBUILD directly to EU priorities on digital skills, upskilling and inclusive workforce transformation.

03/ International Networking

DPU built new academic connections with researchers and practitioners from across Europe, strengthening future collaboration potential.

04/ Universities as Change Agents

The presentation underscored the critical role of higher education in driving sustainable, digital and socially inclusive transformation.



GreenBUILD at USUST: Rethinking the Energy-Efficient Reconstruction of Damaged Buildings

Ukrainian State University of Science and Technologies hosted an interdepartmental seminar on energy-efficient reconstruction — connecting GreenBUILD research with Ukraine's most urgent practical need: rebuilding better, safer and greener.

On 28 May 2026, Ukrainian State University of Science and Technologies hosted an **interdepartmental scientific seminar** within the GreenBUILD project, dedicated to the energy-efficient reconstruction of damaged buildings. The event brought together academic staff, researchers and PhD students to discuss how Ukraine's reconstruction can combine safety, sustainability and modern European energy-efficiency standards.

The seminar focused on practical approaches to improving the energy performance of buildings affected by damage and deterioration. Participants discussed **Nearly Zero-Energy Building requirements**, thermal modernisation, renewable energy solutions and the use of **Building Energy Modelling** as a tool for assessing and improving reconstruction decisions. Special attention was given to how these methods can be adapted to the Ukrainian context and used in real renovation projects.



28 May 2026

One-day seminar



USUST, Ukraine

Ukrainian State University of Science and Technologies



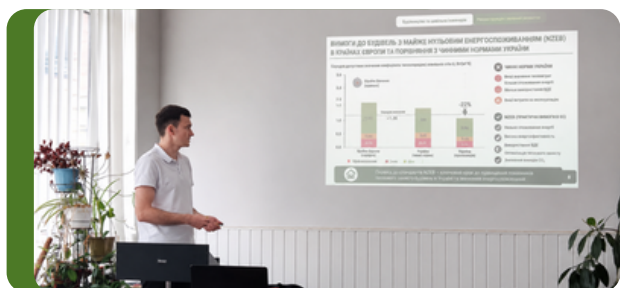
GreenBUILD Framework

Erasmus+ CBHE project activity



Reconstruction Focus

Damaged buildings · Energy performance



The event strengthened the role of GreenBUILD as a platform for knowledge exchange and capacity building in sustainable construction. By connecting research, education and practical reconstruction needs, the seminar at USUST contributed to the development of professional competences that are essential for Ukraine's green recovery and for the creation of more resilient, energy-efficient buildings.

Methods & Topics Covered



NZEB Standards

Nearly Zero-Energy Building requirements for EU compliance



Renewable Energy

Solar, heat pumps and on-site energy generation



Thermal Modernisation

Insulation, façade renewal and heat loss reduction



Building Energy Modelling

BEM as an assessment and decision-support tool

Key Outcomes of the Seminar

01/

Staff, researchers and PhD students from multiple departments united around the topic of energy-efficient reconstruction.

02/

Nearly Zero-Energy Building requirements were examined in depth, with a focus on their application in Ukrainian renovation practice.

03/

Building Energy Modelling was introduced as a practical method for assessing and optimising reconstruction decisions before implementation.

04/

USUST reinforced GreenBUILD's role as an active knowledge-sharing hub, connecting European standards with Ukrainian reconstruction reality.



GreenBUILD in Paris: Connecting Ukraine's Recovery with Construction Innovation

At one of the world's leading construction technology conferences, GreenBUILD made its mark — bringing Ukraine's story of recovery, resilience and green building education to more than a thousand professionals from 27 countries.



28 May 2026
International conference



Paris, France
In-person event



1,000+ Participants
From 27 countries worldwide



Construction Technology
BIM · Automation · Sustainability

On 28 May 2026, **Dr. Oleg Kalmykov**, Head of the GreenBUILD Project Team at O. M. Beketov National University of Urban Economy in Kharkiv, represented the project at **ConTech Connect 2026** in Paris, France. The international event gathered more than **1,000 participants from 27 countries**, bringing together universities, engineering companies, technology providers, start-ups, investors and construction professionals to discuss the future of the built environment.



Participation in ConTech Connect 2026 helped present GreenBUILD to a wider international audience and link the project's goals with global trends in **digital engineering, BIM, automation, industrialised construction and sustainable building practices**. The event created new opportunities for professional exchange and networking, while highlighting the importance of innovative technologies for Ukraine's reconstruction, energy-efficient buildings and a more resilient construction sector.

Why This Appearance Matter



01 Global Stage, Ukrainian Story

GreenBUILD reached over 1,000 professionals from 27 countries, putting Ukraine's green recovery on the international construction map.



02 Industry Connections Made

Direct contact with engineering companies, tech providers, start-ups and investors creates pathways for future collaboration beyond academia.



03 Aligned with Global Tech Trends

GreenBUILD's curriculum and lab development can now draw from cutting-edge discussions on BIM, automation and industrialised construction.



04 Project Visibility Amplified

Representing GreenBUILD at the highest level of international construction conferences strengthens the project's credibility and reach.



Green Roofs, Cooler Buildings: KNUCA Research Brings Nature into Energy-Efficient Design

New research from Kyiv National University of Construction and Architecture shows that how a green roof is planned — not just whether it exists — determines its thermal performance.



"Planning of Green Roofs for the Best Thermotechnical Effect"

T. Tkachenko, A. Lis, Yu. Tsiuriupa, V. Mileikovskyi, A. Ujma, O. Tkachenko, V. Sakhnovska

Published in Scientific Review Engineering and Environmental Sciences · 2026

Researchers from **Kyiv National University of Construction and Architecture**, a GreenBUILD consortium partner, have published a scientific article exploring how green roof planning can improve the energy performance of buildings. The study "Planning of Green Roofs for the Best Thermotechnical Effect" by T. Tkachenko, A. Lis, Yu. Tsiuriupa, V. Mileikovskyi, A. Ujma, O. Tkachenko and V. Sakhnovska was published in Scientific Review Engineering and Environmental Sciences.

The research focuses on a practical question: **how should green roofs be designed so that they really help buildings stay cooler and more energy efficient?** The authors analysed semi-intensive green roofs and showed that conventional roof pathways can increase heat transfer compared with vegetated areas. Their findings underline the importance of **expanding planted roof surfaces**, placing pathways more carefully and using plant-permeable or walkable green surfaces where possible.

This research strongly supports the GreenBUILD vision of modern, sustainable and climate-resilient construction. It shows that nature-based solutions are not only an environmental trend, but also a **practical design** tool that can reduce energy demand, improve comfort and contribute to greener buildings for Ukraine's future reconstruction.

Key Finding

"Conventional roof pathways can increase heat transfer compared with vegetated areas — meaning the layout of a green roof matters as much as its existence."

Practical Design Implications

01/ Maximise Vegetated Coverage

Designers should expand the proportion of planted roof surface relative to hardscape, since vegetation consistently outperforms paved areas thermally.

02/ Rethink Pathway Placement

Conventional walkways should be positioned and sized carefully, as they act as heat-transfer hotspots within an otherwise cooling roof system.

03/ Use Plant-Permeable Surfaces

Where walkable areas are necessary, plant-permeable or green-compatible materials can preserve much of the cooling benefit of vegetation.

04/ Apply to Ukrainian Reconstruction

As Ukraine rebuilds, these findings offer a low-cost, nature-based lever for improving the energy performance of renovated and new buildings alike.



Building the Curriculum Ukraine Needs: GreenBUILD Maps Future Skills for Sustainable Reconstruction

A comprehensive study of what Ukraine's construction sector actually needs from its next generation of engineers — based on direct evidence from industry, government and academia.

108 Survey responses collected	16 In-depth stakeholder interviews	5 Universities contributing data	1 New Master's programme to follow
 Literature Review	 Stakeholder Consultations	 108 Survey Responses	 16 In-Depth Interviews

At the end of May 2026, the GreenBUILD consortium completed an important step towards the future **Master's programme in Green and Energy-Efficient Building Design**: the Needs Analysis Report. The study brought together evidence from literature review, stakeholder consultations, 108 survey responses and 16 in-depth interviews with employers, engineers, manufacturers, public sector representatives and construction industry experts.

The results show a clear demand for a new generation of professionals who can work at the intersection of **sustainable construction, energy efficiency, digital technologies and post-war reconstruction**. Stakeholders highlighted the need for more practical training, stronger links with industry, wider use of BIM and other digital tools, as well as competences in green building technologies, circular construction and sustainable renovation.

The report will become a key foundation for designing and validating the GreenBUILD Master's programme. It also confirmed strong interest from companies and institutions in cooperating with universities through internships, guest lectures, case studies, curriculum development and joint research. In this way, GreenBUILD is not only creating a new educational programme, but also building a **long-term bridge between higher education, the labour market and Ukraine's green recovery**.

Most In-Demand Skills & Competences

 Practical Training	 BIM & Digital Tools	 Industry Links	 Building Design
 Green Building Tech	 Circular Construction	 Energy Efficiency	 Research Skills

Key Finding

"Stakeholders confirmed strong interest in cooperating with universities through internships, guest lectures, case studies, curriculum development and joint research."



Green Construction Takes Centre Stage in Kyiv

KNUCA brought architects, engineers, ecologists and economists into one room — and one conversation — about building Ukraine's greener future.



20–21 May 2026



Kyiv, Ukraine

Hybrid format



KNUCA

GreenBUILD Partner



203 Participants

Ukraine & abroad

Creating a safer, healthier and more comfortable built environment — together.

Special attention was also given to the human dimension of reconstruction. Green building approaches can help create barrier-free, comfortable and restorative spaces, including environments that support veterans' rehabilitation and psychological recovery. Through this event, KNUCA strengthened the visibility of GreenBUILD and showed how academic knowledge, professional expertise and business experience can work together for a **greener and more resilient Ukraine**.

On 20-21 May 2026, **Kyiv National University of Construction and Architecture** hosted the **V International Scientific and Practical Conference “Green Construction”** in a hybrid format, bringing together **203 participants** from Ukraine and abroad. The event was organised by the Department of Environmental Protection and Occupational Safety Technologies and became an important GreenBUILD-related dissemination platform for discussing how sustainable building solutions can support Ukraine's post-war recovery.

The conference highlighted that green construction is no longer a narrow technical topic. It connects architecture, engineering, urban planning, ecology, design, economics, climate services and business around one shared goal: creating a safer, healthier and more comfortable built environment. Participants discussed Ukrainian scientific developments in energy efficiency, modern construction technologies, indoor air quality, carbon use, noise and fire protection, urban agriculture and nature-based solutions.



Topics on the Programme

- Energy efficiency
- Modern construction technologies
- Indoor air quality
- Carbon use & reduction
- Noise protection
- Fire protection
- Urban agriculture
- Nature-based solutions





From Vision to Curriculum: GreenBUILD Shapes a New Master's Programme for Ukraine's Green Future

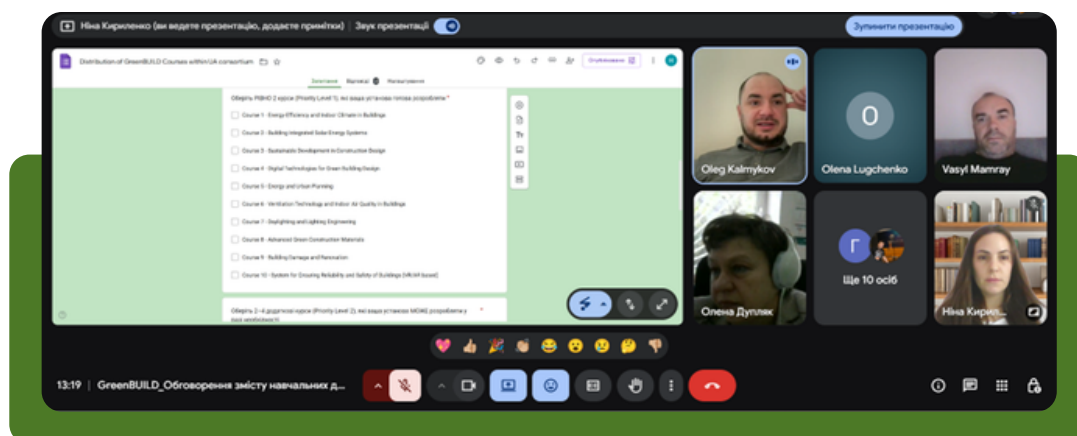
After completing the Needs Analysis Report, Ukrainian and European academic teams have started building the syllabi, materials and resources for a new generation of green building specialists.

Programme	Courses	National Coordinator	Target Launch
Green & Energy-Efficient Building Design	10 Specialised Modules	Zhytomyr Polytechnic	September 2026

The GreenBUILD consortium has moved from analysis to action, launching the curriculum development phase for the new **Master's programme in Green and Energy-Efficient Building Design**. After completing the Needs Analysis Report and holding a series of coordination meetings, Ukrainian and European academic teams have started working together on course syllabi, teaching materials and practical learning resources that will form the foundation of the future programme.

A dedicated working meeting of Ukrainian partner universities was held on **22 June 2026** to discuss the programme structure, academic content and division of responsibilities. The future curriculum will include ten specialised courses covering **energy efficiency, indoor climate, solar energy systems, sustainable construction design, digital technologies, urban planning, ventilation, lighting, green materials, building renovation, safety and comfort, including VR/AR-based approaches**. This structure reflects both the real needs of Ukraine's reconstruction and the latest European experience in sustainable building education.

The programme is being developed jointly with European partners from Estonia, Sweden, Italy and Türkiye, whose expertise will help ensure a modern, practice-oriented and internationally relevant curriculum. At **Zhytomyr Polytechnic State University**, the national Ukrainian coordinator, preparations are already underway for the programme launch in September 2026. This milestone brings GreenBUILD closer to its main goal: preparing a new generation of specialists able to design, renovate and rebuild Ukraine's built environment in a greener, safer and more energy-efficient way.



"This structure reflects both the real needs of Ukraine's reconstruction and the latest European experience in sustainable building education."