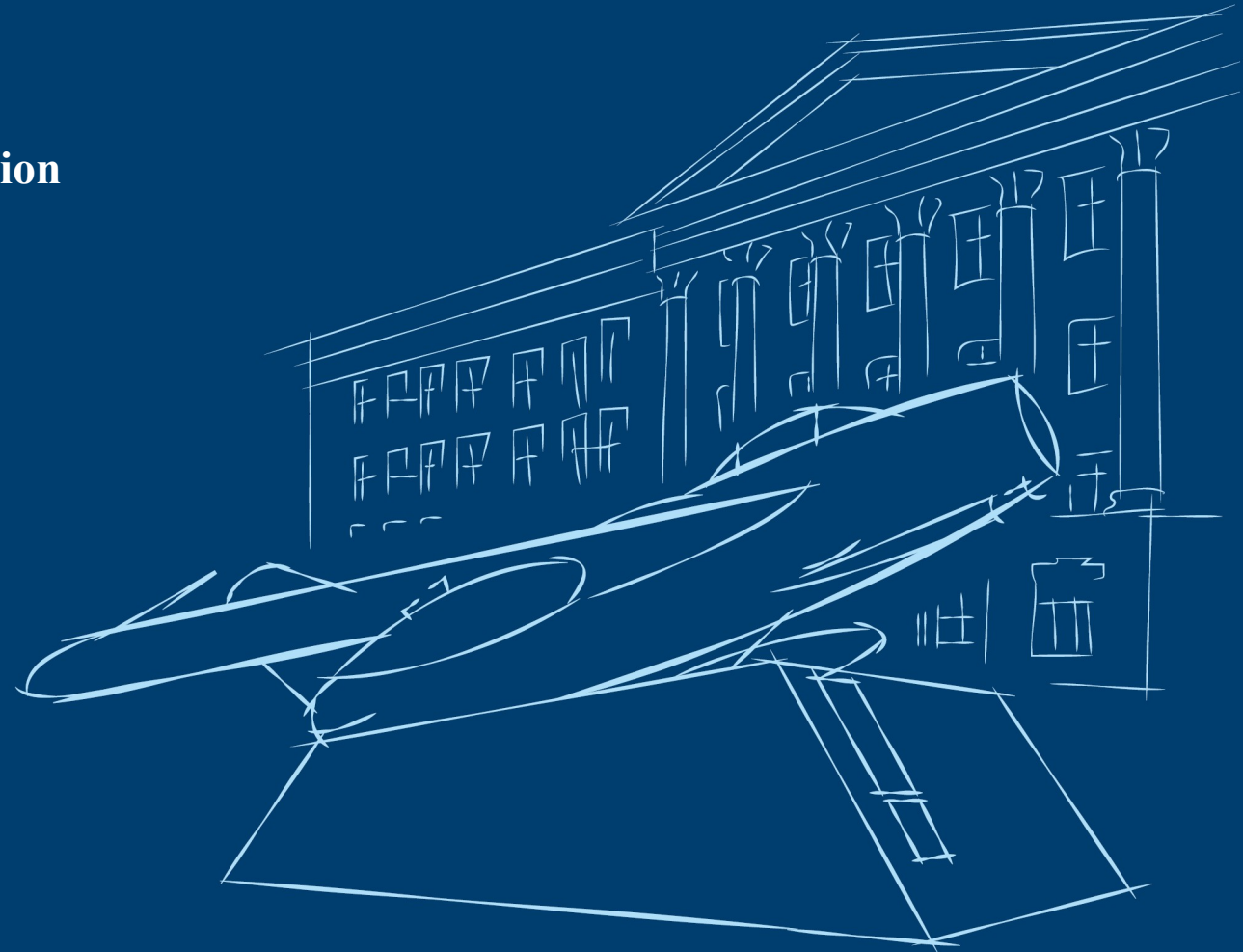**XAI**

НАЦІОНАЛЬНИЙ
АЕРОКОСМІЧНИЙ УНІВЕРСИТЕТ
«ХАРКІВСЬКИЙ АВІАЦІЙНИЙ ІНСТИТУТ»

NATIONAL AEROSPACE UNIVERSITY
«KHARKIV AVIATION INSTITUTE»

12 Responsible Consumption and Production

Eco-Oriented Resource Management

The university actively implements a system for the rational and efficient use of resources such as electricity, water, paper, and heat. To reduce paper consumption and optimize workflows, digital document management and electronic educational services have been introduced.

Energy-efficient technologies are applied in teaching and research laboratories, as well as in lighting and heating systems, contributing to the creation of a modern "Green KhAI" and reducing the environmental impact of the university's activities.
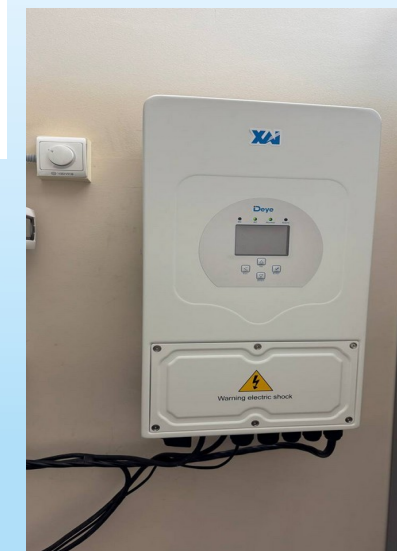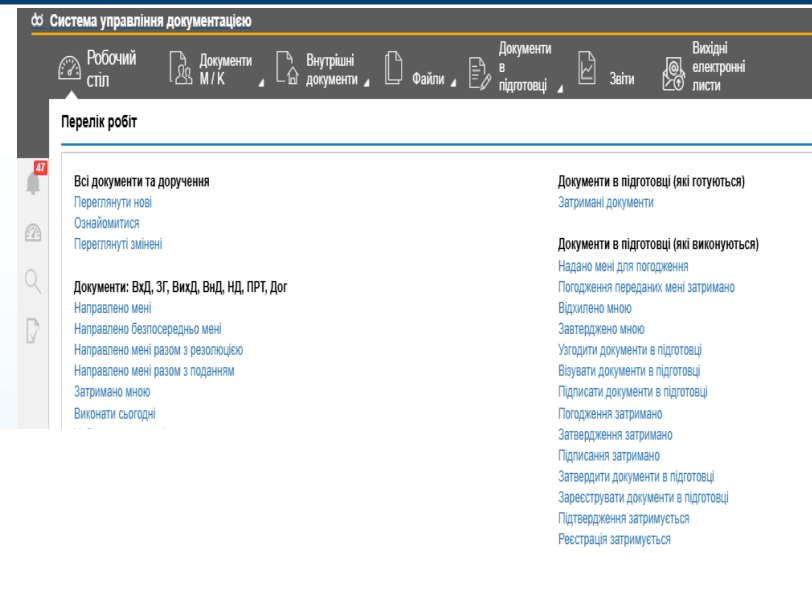
As part of the implementation of its environmental policy and sustainable development strategy, the National Aerospace University "Kharkiv Aviation Institute" has introduced a waste separation system, promoting the rational use of resources and reducing negative environmental impact.

Key areas of waste sorting:

- wood waste - separate collection of wood materials, including unusable furniture, wooden structures, pallets, and leftover materials from repair works.

- glass waste - special containers have been installed for collecting glass bottles, jars, and other glass products.

- stone and construction waste - waste from stone, bricks, concrete, and other inert materials generated during repair and landscaping works is collected separately.

- plastic waste - plastic bottles, packaging, containers, and other plastic items are collected separately.

The National Aerospace University "Kharkiv Aviation Institute," together with Safe Path Group, Inc. (SPG), implemented the "500 Trees KhAI" program, aimed at increasing green spaces and improving the ecological condition of the university campus.

During the program, over 500 trees of various species - including linden, maple, chestnut, spruce, and ornamental shrubs - were planted across the KhAI campus. Students, faculty, staff, as well as partners and alumni, actively participated in the initiative, demonstrating the academic community's unity around a shared ecological goal.

The project is long-term and includes the creation of "Green Avenues of KhAI," ongoing maintenance of the plantings, and the continuation of the annual campus greening practice.

At the National Aerospace University "Kharkiv Aviation Institute," environmental education is an integral part of training modern specialists. Academic programs incorporate modules on ESG (Environmental, Social, Governance), environmental management, green entrepreneurship, and sustainable design, ensuring a combination of professional competence and ecological awareness.

The university participated in the First Student Forum ESG-REBOOT: Restarting Mindsets - on Actions, Data, and Trust, with faculty and students from the Department of Ecology and Technogenic Safety taking part in the event. This event served as an important platform for discussing modern approaches to sustainable development based on ESG (Environmental, Social, Governance) principles.

Participation provided attendees with a unique opportunity to learn about sustainable development practices, explore innovative solutions in environmental and social sectors, and deepen their understanding of the importance of transparent and effective governance. This experience is extremely valuable for future specialists who aim to shape a sustainable future for Ukraine, taking into account current environmental, economic, and social challenges.
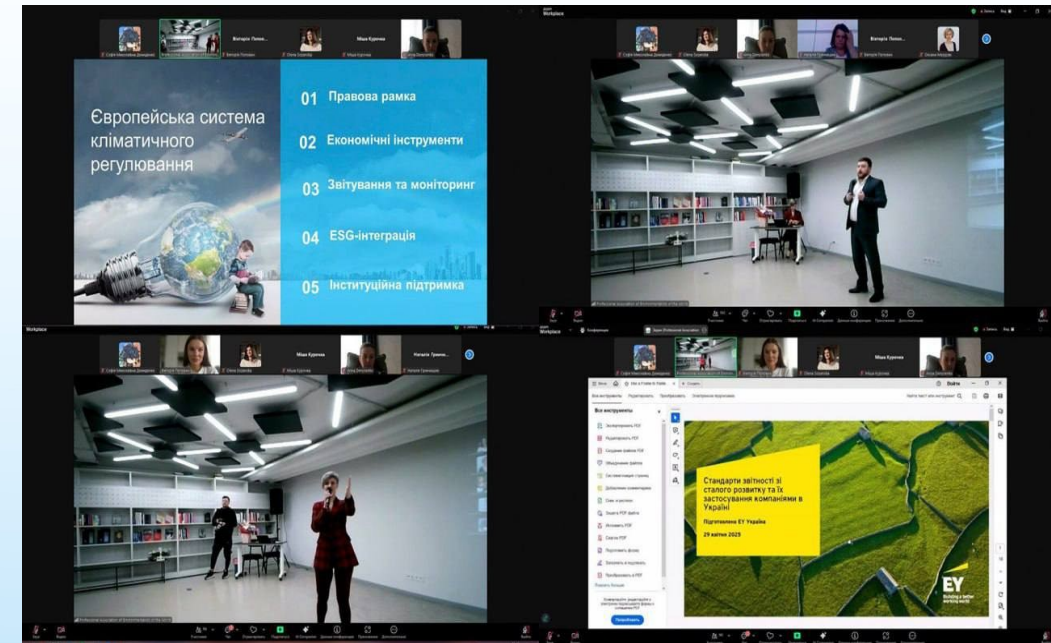
Sustainable Development in University Production

The National Aerospace University "Kharkiv Aviation Institute" consistently implements sustainable development principles in its production processes, combining engineering excellence with a responsible approach to the environment.

The university's production units - including teaching laboratories, workshops, and design centers - are transitioning toward the rational use of materials, reducing waste, and reusing components in both educational and research activities.