



2024 REPORT

SUSTAINABLE DEVELOPMENT GOALS



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National Technical University of Ukraine
"Igor Sikorsky Kyiv Polytechnic Institute"



SUSTAINABLE DEVELOPMENT GOALS



Key facts

Igor Sikorsky Kyiv Polytechnic Institute is one of the largest technical universities in Ukraine and Europe.

25% of students at technical universities in Ukraine are students of Igor Sikorsky Kyiv Polytechnic Institute.

24 faculties and institutes

293 educational programs, including
126 certificate programs

49 specialisations

94 educational programs are taught in English

5 educational programs were included in **TOP450** QS World University Rankings by Subject 2025 (Engineering & Technology)



Igor Sikorsky Kyiv Polytechnic Institute was the **first** in Ukraine to be included in the **world university rankings** in 2012



Sikorsky Challenge

Innovation Ecosystem brings annually

100-150 various startups to the national and foreign markets, which **contributes to the achievement of the 17 UN Sustainable Development Goals** through the development of innovative entrepreneurship, the implementation of technological solutions for sustainable economic growth, increasing well-being and preserving the environment.



Kyiv Polytechnic Institute is the only Ukraine's university, which has its own **Space Program**,

designing **micro- and nanosatellites** (CubeSats) and putting them into Earth orbit.

PolyITAN -1 is the only Ukrainian nanosatellite or CubeSat that is still travelling in space.

It was put into orbit by the Dnipro booster rocket in 2014 .

Although the PolyITAN-1 mission was scheduled only for one year, it broke all records, orbiting Earth for a decade already.

SpaceX 's Falcon 9 rocket put **PolyITAN-HP-30**, the third KPI-built nanosatellite, into Earth orbit on January 3, 2023.





OVERCOMING POVERTY

Overcoming poverty in all its forms and everywhere

133 low-income students receiving financial aid

Supporting local communities

The university supports local communities in developing financially and socially sustainable initiatives through educational and resource opportunities.

In particular, Igor Sikorsky Kyiv Polytechnic Institute, in partnership with Poland's Poznań University of Technology, is carrying out the international project "Community Empowerment: Crisis Solutions," funded by the NATO Science for Peace and Security Programme (SPS G6119, 2023–2026).

The project aims to strengthen community resilience to crisis challenges by identifying effective governance mechanisms, preparing social structures for crisis situations, providing threat response training, and raising security awareness. The university provides educational resources, offers training programs, and helps build up the potential of local communities to come up with sustainable socio-economic solutions.

The following policies are in good progress:

Igor Sikorsky Kyiv Polytechnic Institute's policy to support socially disadvantaged students and others involved in the educational process;

Policy to engage with the local community to improve health and welfare systems, including programs for displaced persons or refugees.

Financial assistance to orphaned students amounted to more than **UAH 9.3 million** in 2024, covering **461** people.

UAH 7.677 million were allocated for food assistance to **124 people**, **UAH 1.404 million** for the purchase of educational literature (**103 people**), and **UAH 107,600** to **109** people for the initial purchase and replenishment of their wardrobe.

In addition, **118** students received financial assistance in the amount of **UAH 32,200**, and financial assistance for employment after graduation was extended to **7** graduates in the amount of **UAH 127,200**.

These activities are part of the university's socially responsible policy aimed at supporting the well-being of students and promoting the sustainable development of the academic community.

Enrollment of the students who belong to 20% of the lowest-income groups of households

According to quotas for orphans and children deprived of parental care, Kyiv Polytechnic enrolls up to 5% of the maximum volume of the state order.





ZERO HUNGER

End hunger, achieve food security and improved nutrition, and promote sustainable agriculture

Food safety policy, access to food at Kyiv Polytechnic University

Kyiv Polytechnic Institute has implemented a comprehensive system of measures to ensure food safety for students, employees, and cadets.

The university is committed to providing affordable and sustainable food. The dining halls serve a wide variety of dishes, including vegetarian and vegan options, prepared with seasonal produce without excessive use of processed ingredients.

Structural units of the Student Nutrition Center (SNC) – cafeterias located in buildings 1, 31, and 32, serving students and staff – have established a food waste monitoring and management system in accordance with the SFSC provisions.



Promoting sustainable agricultural development

One of the highlights of the 13th festival of innovative projects "Sikorsky Challenge 2024" (held in October 2024 at Igor Sikorsky Kyiv Polytechnic Institute) was the section "Agrotech and Food Security".

Access to university facilities

Ion exchange and adsorption laboratory :
testing according to the field of certification - drinking water, swimming pool water, wastewater/process/mine water, ion exchange resins, activated carbon, reverse osmosis and nanofiltration membrane elements, PP and activated carbon-based cartridges





GOOD HEALTH AND WELL-BEING

Ensure healthy lives and promote well-being for all at all ages

Number of graduates in medicine

43 + 7 postgraduate students (the number of graduates totals **5720 + 83** postgraduate students)

Smoke-free campus



According to clause 11.2.4 of the Rules of the Academic Council, smoking is prohibited in the premises and on the territory of Igor Sikorsky Kyiv Polytechnic Institute, including hookahs, electronic cigarettes, etc.

Also, the provisions of paragraph 1.1 of the Rules of the Academic Council stipulate that at Igor Sikorsky Kyiv Polytechnic Institute, labor and academic discipline shall be based on the conscious and conscientious performance by all staff and degree seekers of their labor and academic duties and is an essential condition for high quality work and education.

The Recreation Center is operational



Hall for physiotherapy sessions

Mental health support

by the team of the social and psychological work department — The Student Social Service at the University's Department of Educational Work offers FREE individual counseling to students, postgraduates, and faculty.

Sports and Recreation Center at Igor Sikorsky Kyiv Polytechnic Institute

12 gyms,

15+ sports sections,

30+ professional trainers,

10,000 visitors per month.

KPI national teams participated in

10 Kyiv city championships,

5 Ukrainian championships,

4 Kyiv cup games,

4 All-Ukrainian competitions, and

2 international tournaments.

18 friendly matches with teams from

other universities, **14** sports tournaments among KPI faculties were staged.

These achievements emphasize the important role of sports in the university community, contributing to the maintenance of students' physical and mental health, the formation of leadership qualities and the development of communication skills within the framework of the sustainable development of the university.





QUALITY EDUCATION

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

8,110 students

begin full-time equivalent studies, including **300** students from first-generation families

20 graduates

have received the qualifications to teach at primary school level

24,668 degree seekers pursue their studies under **113** bachelor's , **131** master's degree, and **49** Ph.D. programs

Providing English-language training

21 educational programs are taught in English, **73** disciplines are taught in English under Ukrainian-language educational programs

The survey results showed that **86.6%** of students at Igor Sikorsky Kyiv Polytechnic Institute are aware of the concept of sustainable development of society.

Electronic archives of scientific and educational materials

ELAKPI is an open access institutional repository (about **67,000** electronic publications), which aggregates, stores, distributes and provides long-term, constant and reliable access via the Internet to scientific and educational materials of the faculty, staff, students, postgraduates and doctoral candidates at Igor Sikorsky Kyiv Polytechnic Institute.

The university regularly organizes events open to a wide audience, including public lectures, seminars and educational initiatives for local communities.

Within the framework of the international project "**Community Empowerment: Crisis-Ready Solutions**" (SPS G6119, 2023–2026), implemented in partnership with the Poznań University of Technology under the NATO Science for Peace and Security Programme, trainings and awareness-raising activities are being conducted in terms of crisis preparedness, threat response, and security awareness.

"Build Your Dream": the first engineering competition, staged by Kyiv Polytechnic, among secondary-school students in the 8th – 11th grades.



More than **30** schoolchildren from different parts of Ukraine flocked to KPI to try on the role of aircraft designers

Institute of Postgraduate Education (IPE)

The main objectives of the IPE are to create conditions for continuous **lifelong learning** , improve the quality of education, and expand access to educational resources for representatives **of different age groups and sections of the population** through the effective integration of information and communication technologies (ICT) into the educational sphere.





GENDER EQUALITY

Achieve gender equality and empower all women and girls

123 first-generation learners are (full-time equivalent – FTE) female students

1,816 FTE students are female

The university **systematically monitors** gender distribution in student applications and enrollment.

In 2024, **36,499** applications for admission to KPI were submitted, **14,395 (39.5%)** of applicants being women and **22,104 (60.5%)** being men.

Kyiv Polytechnic enrolled **7,285** students, including **2,584 (35.5%)** women, **4,701 (64.5%)** men.

Of **1,878** FTE senior academic staff, **851** are female

1,241 + 25 (postgraduates) graduates in such subject areas as natural sciences, technology, engineering and mathematics (STEM), medicine, arts, humanities, and social sciences are female

The following policy is in good progress:

Igor Sikorsky Kyiv Polytechnic Institute pursues the policy of equality, diversity and inclusion (EDI)

Activities

To strengthen managerial influence, an advisor to the rector for gender equality has been appointed.

Based on decision the Academic Council, the *Action Plan for the Implementation of the Principles of Gender Equality in the Practical Activities of Igor Sikorsky Kyiv Polytechnic Institute until 2027*, and the composition of University's Working Group on Gender Equality was approved by the Rector's Act.

Perspektywy Women in Tech Summit 2024

is the most visible and probably the world's largest gathering of women engaged in science, high-tech industries, IT, etc.

65 participants (it is worth noting that this turnout is three times more than last year) – 56 students, 1 postgraduate, 5 academic staff, and 3 librarians of the university's Scientific and Technical Library – represented KPI at the summit.





GENDER EQUALITY

Achieve gender equality and empower all women and girls

Department of Social and Psychological Work – Student Social Service

operates at KPI to help the student community in their capacity building.

The purpose of the activity is the social development of students, psychological assistance, and promotion of an active social position of young people through:

- Psychology and self-development
- Social prevention
- Socio-cultural and sporting events
- Blood donation
- Charity
- Consultations with a psychologist or social worker



СОЦІАЛЬНА ПРОФІЛАКТИКА



ПСИХОЛОГІЯ ТА САМОРОЗВИТОК

Educational and Scientific Center for Applied Sociology SOCIO+

conducts annual monitoring based on the analysis of self-assessments, in particular:

discriminatory statements based on gender; harassment; acts of a sexual nature, especially by verbal (threats, intimidation, obscene remarks) and/or physical conduct (touching, patting), etc.





CLEAN WATER AND SANITATION

Ensure availability and sustainable management of water and sanitation for all

Collaborating on water security with local, regional, national or global governments

The project "Safe Drinking Water in Ukraine: Access to Information on Water Quality and Water Treatment Methods", implemented by the NGO WaterNet with financial support from the Fund for Local Cooperation (FLC), administered by the Embassy of Finland in Ukraine.

Project implementation period: December 2022 - October 2024.

Activities

Organized by KPI together with the Kyiv Representative Office of the Polish Academy of Sciences, the international conference "*Clean Water. Fundamental, Applied and Industrial Aspects*" is held annually.



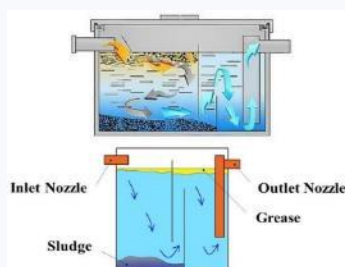
The responsible, rational use of water resources is under discussion



Wastewater treatment

As an economic entity, Igor Sikorsky Kyiv Polytechnic Institute fulfils basic requirements for discharging wastewater into centralized sewage systems; requirements for the quality and regime of wastewater discharge, as well as other requirements established by relevant legislation.

To this end, a grease trap has been installed at wastewater outlets into a sewer system at the Student Catering Center (buildings 31 and 32) and the university's disease-prevention sanatorium. KPI has concluded relevant agreements with Ukrainian licensed companies to clean the grease trap twice a year.



Overall, staff and students from **sixteen** faculties at Igor Sikorsky Kyiv Polytechnic Institute are engaged in various aspects of water purification.

Consumption of water per person: **21.69 m³** (**21,599** people, **468,562 m³** of water).

KPI uses **building standards** that require the use of technologies to reduce water consumption, such as economical faucets, shower systems, and rainwater harvesting equipment.



7 AFFORDABLE AND CLEAN ENERGY



AFFORDABLE AND CLEAN ENERGY

Ensure access to affordable, reliable, sustainable and modern energy for all

The KPI concept includes the development of a **"green" university**, an educational institution that turns out qualified specialists in the field of renewable energy sources.

Total energy use: **37,988.69** GJ.

Total energy use from low carbon sources: **5** GJ.

Area of university buildings: **554,000** m²



Events

The 25th anniversary international scientific and practical online conference "Renewable Energy and Energy Efficiency of the 21st Century" (May 22–24, 2024).

A memorandum of cooperation has been signed between Igor Sikorsky Kyiv Polytechnic Institute and the DTEK Renewables company, whereby a solar and wind energy laboratory is being established at the Institute of Energy Saving and Energy Management, supported by DTEK Renewables. This will strengthen the technical base of the university, raising training of future specialists to a qualitatively new level to meet the needs of Ukraine's energy sector.

Modernization of existing buildings to increase their energy efficiency

Igor Sikorsky Kyiv Polytechnic Institute is implementing a comprehensive energy independence strategy, approved in 2024, which includes the installation of cogeneration plants for the simultaneous production of heat and electricity, as well as the active use of renewable energy sources, particularly solar panels.

Stand-alone solar power plants are already operating, supplying energy to scientific departments and the university's library, ensuring the stability of the educational process and the preservation of electronic resources.



Generation capacity – 14.8 kW.
Total energy storage capacity – 19.2 kWh.



8 DECENT WORK AND ECONOMIC GROWTH



DECENT WORK AND ECONOMIC GROWTH

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

Activities

The university held "**Occupational Safety Week**" in April 2024.

This bears evidence of attention to safe production and proper working conditions — a component of a sustainable production-consumption cycle.

A Memorandum of Cooperation has been signed between Igor Sikorsky Kyiv Polytechnic Institute and the Kyiv Regional Employment Center, whereby the signatories will deal not only with employment of the civilian population, but also with upskilling and retraining under voucher programs for those who desperately need it today: war veterans, military personnel and their family members.

According to Denys Darmostuk, director of the Kyiv Regional Employment Center, more than **2,500** vouchers for upskilling and obtaining the second higher education were issued during 2023–2024.



4,205 FTE students

served their internship more than a month outside the university

5,640 FTE staff

1,779 FTE academic staff





INDUSTRY, INNOVATION AND INFRASTRUCTURE

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

90.3 million hryvnias

research income from industry
and commerce

1,371

Number of FTE academic staff in
such subject areas as natural
sciences, technology, engineering
and mathematics (STEM)

by subject areas:

STEM

UAH 84.27 million

Medicine

UAH 3.88 million

Arts and
Humanities/Social
Sciences

2.17 million UAH



The annual **Festival of Innovative Projects**

"**Sikorsky Challenge 2024**" took place for the 13th time already.

140 applications were submitted to the Competition from **20** cities of Ukraine, the United States, Spain and the Netherlands. The evaluation of submitted applications and the selection of finalists were made by the Expert Council of the Competition, consisting of **70** experts from Ukraine, the UK, the USA, Spain, Poland, Latvia, the Republic of Georgia, Japan, and Saudi Arabia.

65 projects reached the finals (**28** winners) in 7 sections: 1. Aviation, space, defense and security; 2. Energy sustainability and security; 3. Environmental safety, "green chemistry"; 4. Biomedical engineering and human health; 5. Digital country, artificial intelligence, cybersecurity; 6. Infrastructure, industrial high-tech; 7. Agrotech and food security.





INDUSTRY, INNOVATION AND INFRASTRUCTURE

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

The Igor Sikorsky Kyiv Polytechnic Institute Library is the best library in Ukraine!

The Scientific and Technical Library named for Hryhorii Denysenko, KPI Rector from 1971 to 1987, has been recognized as Ukraine's Best Library of 2024, according to the results of the annual All-Ukrainian competition "Library of the Year," organized by the Ukrainian Library Association in collaboration with the Ministry of Culture and Information Policy of Ukraine - for the project "Modern Educational Safe Space CLUST Space" - the first innovative smart air raid shelter in Ukraine.

60+ joint international centers and laboratories.

Igor Sikorsky Kyiv Polytechnic Institute cooperates with leading corporations and firms, such as **Boeing, Haas, Motorola, Siemens, Festo, Samsung, Intel, Ajax**, etc.



Centre 4.0 KPI Digital Innovation Hub: science and innovation for Ukrainian enterprises

- a centre that provides consulting, specialists, offers innovative technologies, conducts training, develops new products and services, and finds donors for the majority of domestic entrepreneurs - to make small and medium-sized businesses efficient, innovative, and digital.

KPI DIH is among the best centres in Ukraine: after a careful selection, it was integrated into the European Network of Digital Innovation Hubs, supported by the German government.

KPI professor receives award from International Welding Institute

Dr **Yevgenia Chvertko**, Associate Professor at the Welding Department of the Kyiv Polytechnic's Institute of Material Science and Welding, became the **first woman** in Ukraine and Eastern Europe to receive an award from the **International Institute of Welding**, an organization shaping global trends in the field of welding and allied technologies.





REDUCED INEQUALITIES

Reduce inequality within and among countries

	Students	Academic staff
Total number (FTE)	24,668	5,640
Number of people with disabilities (FTE)	64	62
Number of international students from developing countries (FTE)	16	

Educational space "Inclusive Lecture Room"

- an environment for various groups and communities to work on the psychological recovery of Ukrainians affected by the war, discuss sensitive topics related to mental health, learn to cope with psychological traumas, and engage in outreach activities.

The project was initiated by the Faculty of Sociology and Law, the Training and Innovation Center for Prosthetics and Rehabilitation at Igor Sikorsky Kyiv Polytechnic Institute, and the KOLO Charity Fund.

Operations

Igor Sikorsky Kyiv Polytechnic Institute tracks the admission of students from various socio-economic and demographic categories through the Unified State Electronic Database on Education (EDBO).

The EDBO collects and processes data on applications, admissions, social status, categories of underrepresented groups, students with disabilities, newly arrived refugees and other groups. This helps monitor inclusion and support for underrepresented students at the national level.

Thanks to these measures, as well as EDBO, KPI promotes social justice and the accessibility of higher education.

The Regulations for the Organization of Inclusive Education at Igor Sikorsky Kyiv Polytechnic Institute are in force, whereby the university renders educational services to degree seekers with special educational needs on an equal basis with other students.

The Center for Veteran Development was established at Igor Sikorsky Kyiv Polytechnic Institute in 2024.

The assistant to the rector, **Andrii Havrushkevych**, a KPI graduate and a war veteran, is entrusted with the overall coordination of center's operations .





SUSTAINABLE CITIES AND COMMUNITIES

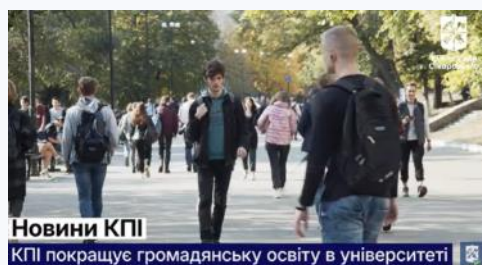
Make cities and human settlements inclusive, safe, resilient and sustainable

Collaboration with the Hanns Seidel Foundation on civic education, raising a new generation of leaders!

Igor Sikorsky Kyiv Polytechnic Institute is intensifying educational and research initiatives with a focus on social responsibility, civic engagement and political awareness of students, the formation of a new generation of democratic youth, and the education of conscious and responsible citizens.

Owing to Foundation's support, several successful educational projects have already been carried out at the Faculty of Sociology and Law.

The parties intend to expand the scope of cooperation beyond the university in order to apply the standards of academic freedom and influence the formation of an effective veteran policy in Ukraine.



The training **Laboratory of Cybersecurity of Automated Control Systems** opened at the Kyiv Polytechnic's Institute of Physics and Technology, supported by the USAID Project "Cybersecurity of Ukraine's Critical Infrastructure".

Henceforth, future and present critical infrastructure operators will be able to improve their skills at reducing and eliminating vulnerabilities in automated control systems in various sectors, such as manufacturing, water supply, and utilities.

Great support to the launch of the laboratory was provided by the National Security and Defense Council of Ukraine, the State Service of Special Communications and Information Protection of Ukraine, and the Ministry of Education and Science of Ukraine.



UAH 52.5 million
spent on arts and heritage

More than 30 performances
were held at the Kyiv Polytechnic's Center for Culture and Arts, as a contribution to local art initiatives.

The organizational structure of Center for Culture and Arts includes the **Hryhoriy Sinitsa Art Gallery**.





SUSTAINABLE CITIES AND COMMUNITIES

Make cities and human settlements inclusive, safe, resilient and sustainable

Large-scale international project "Community Empowerment: Crisis-Ready Solutions" (NATO SPS G6119)



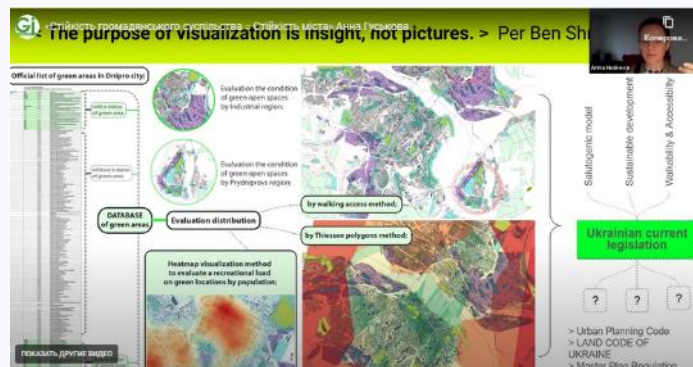
The project aims to strengthen the resilience of local communities in Ukraine and Poland to the serious challenges of modern crises.

The project involves communities in Poznań County (Poland) and the Bucha District Council of the Kyiv Oblast (Ukraine). The target audience of the project is about 770,000 people.

In particular, the project aims to address key issues: how to strengthen the resilience of local communities to independently overcome crises, how to effectively involve communities in the implementation of anti-crisis programs, how to develop social resilience, trust in local authorities, and raise public awareness of risks.

November 22, 2024 — the 7th Scientific and Technical Conference of Master's Students named after Vasyl Vynoslavsky (online).

Sections included "Geotechnical and Urban Underground Construction," and "Engineering Ecology and Resource Conservation".



Open lecture: "Resilience of civil society = Sustainability of the city" by invited expert Anna Guskova, architect and urban planner, spatial data expert, founder of the project "GreenSpaces Strategy Development" and "NeboPole.Labs"





RESPONSIBLE CONSUMPTION AND PRODUCTION

Ensure sustainable consumption and production patterns

3,237.477 tons

of waste generated

(including **1,802.698** tons of
solid household waste)

3,080.69 tons

of waste recycled

156.787 tons

of waste sent to a landfill, with KPI sending
mixed solid household waste to a
specialized company for sorting and further
disposal of the remains.

All other types of waste are collected and
accounted for separately.



Results of food waste monitoring at the KPI SCC in 2024

In accordance with the requirements of Ukrainian legislation, particularly the Laws of Ukraine “On the Quality and Safety of Food Products and Food Raw Materials”, “On Waste Management”, “On Environmental Protection”, “On Consumer Rights Protection” and “On Ensuring the Sanitary and Epidemiological Well-Being of the Population”, the Igor Sikorsky Kyiv Polytechnic Institute has established a Food Safety Management System (FSMS).

Applying the principles of sustainable development and rational use of resources, food waste monitoring was carried out at the KPI Student Catering Center in 2024. According to the results of the monitoring, it was established that the annual amount of food waste totaled **21.203 tons**. The largest share of waste was potatoes — 12.236 tons, which is more than half of the total volume. Other main items included cabbage — 4.283 tons, carrots — 1.919 tons, beets — 1.390 tons, onions — 1.229 tons, as well as insignificant amounts of cucumbers (0.052 tons) and tomatoes (0.094 tons).

The obtained data enable the evaluation of the structure of food waste, identify priority areas for optimizing procurement and reducing product losses.

The following policies are in good progress:

Igor Sikorsky Kyiv Polytechnic Institute’s
Policy on Sustainable Development of the
Procurement System

Igor Sikorsky Kyiv Polytechnic Institute’s
Policy on Environmental Protection





RESPONSIBLE CONSUMPTION AND PRODUCTION

Ensure sustainable consumption and production patterns

The Igor Sikorsky Kyiv Polytechnic Institute pursues a **Policy on Sustainable Development of the Procurement System**, whose purpose is to ensure the rational and balanced use of resources by integrating social, economic and environmental aspects into the process of their implementation.

Policy objectives: green procurement, ensuring social responsibility, supporting the local production sector - prioritizing cooperation with local suppliers and manufacturers, assessing the life cycle of goods, supporting innovative solutions - encouraging suppliers to come up with innovative solutions for environmentally friendly goods, work and services that contribute to sustainable development, monitoring and reporting - analytical mechanisms for tracking results and procurement for sustainable growth, regular reporting on achievements in the field of sustainable public procurement.

In 2024, the university introduced the academic discipline "**Fundamentals of Engineering and Technology of Sustainable Development**", which deals with the topic of "responsible consumption and production."

KPI is an economic entity with a low degree of risk!

According to *the State Service of Education Quality*, KPI was given the minimum score - **10** points on a 100-point scale, which indicates the lowest degree of risk for a economic entity in the realm of higher education in 2024. Thanks to the numerous security measures taken in 2024, Kyiv Polytechnic University reduced the degree of risk by **5** points.

December 18, 2024, seminar "The Concept of Sustainable Development and its Application at the EU Level" within the framework of the project "Sustainable Supply Chains in the EU" under the ERASMUS+ programme.

By exploring sustainable supply chains, students gained valuable insight into the importance of environmental responsibility and social awareness in modern business practices.

The poster features two speakers: Marina Kravchenko, a lecturer at the Faculty of Management and Marketing, and Marina Pichutina, a moderator and project manager. The text is in both Ukrainian and English. Logos for the Faculty of Management and Marketing, the European Commission, and the Erasmus+ program are also present.

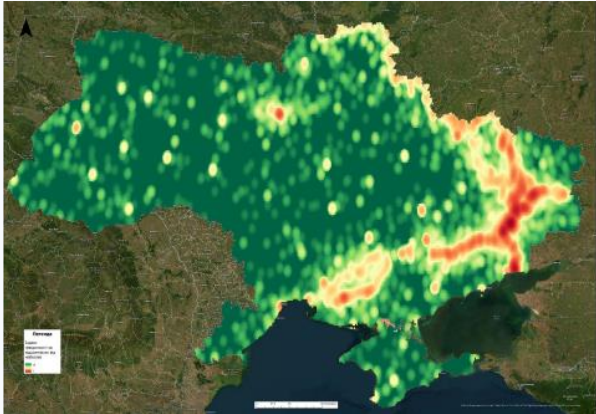




CLIMATE ACTION

Take urgent action to combat climate change and its impacts

Igor Sikorsky Kyiv Polytechnic Institute hosts **the World Data Center for Geoinformatics and Sustainable Development**, which conducts research as well as publishes and submits to authorities annual reports on the analysis and forecasting of sustainable and security development of countries around the world and Ukrainian regions in medium-term (up to 5 years) and long-term (up to 10 years) forecast horizons, which examine the threat of climate change.



Suitability index by distance from emergencies caused by hostilities

Igor Sikorsky Kyiv Polytechnic Institute offers local educational programs with a focus on climate change risks, impacts, mitigation, adaptation, impact reduction and early warning within the framework of interdisciplinary disciplines and subjects on institutional development, for example :

- Syllabus "Cleaner Production" (ZU-02) - full-time,
- Syllabus "Energy Efficiency and Smart Homes" (ZU-05) – full-time,
- Syllabus "Fundamentals of Energy Conservation and Energy Management" (ZU-18) – full-time,
- Syllabus "Smart City Management" (ZU-26) - full-time,
- etc.

Igor Sikorsky Kyiv Polytechnic Institute recognizes the importance of reducing carbon emissions and takes effective measures to cut its carbon footprint in accordance with the adopted environmental policy and sets a goal to reduce the total amount of greenhouse gas emissions by 30% by 2030, compared with the base year through the annual recalculation of greenhouse gas emissions and updated reporting.

Table: Scope 1 and 2 total emissions

Year	2021*	2022 year	2023 year	2024 year	2030*
Emissions, t CO2e/year	17,745.71	13,126.02	14,071.56	10,028.51	12,421.994*
Percentage emission reduction compared with the base year	–	26.03	20.7	43.49	30

* 2021 is the base year, 2030 is the fixed target year, 12,421.994 is the target emission level.





LIFE BELOW WATER

Conserve and sustainably use the oceans, seas and marine resources for sustainable development

Igor Sikorsky Kyiv Polytechnic Institute carries out research and scientific and practical activities aimed at supporting the sustainable functioning of ecosystems and preserving biodiversity.

Igor Sikorsky Kyiv Polytechnic Institute, as a member of a consortium of 9 project partners and 17 associated partners from Romania, Bulgaria, France, Greece, Turkey, the Republic of Georgia and Ukraine, is participating in the implementation of an international project under the EU programme "European Maritime, Fisheries and Aquaculture Fund" No. 101077576 "Boosting the Blue Economy in the Black Sea Region by Initiating a Business Collaboration Framework in the field of Fisheries and Aquaculture, Coastal and Maritime Tourism and Maritime Transport" [4BIZ].



The project is designed to support small and medium-sized businesses in the fishing, aquaculture, maritime tourism, and transport sectors in the region.

During the project implementation period, a KPI institution conducted a detailed analysis of small and medium-sized businesses in Ukraine that operate in the area of the project, as well as considered and proposed mechanisms to promote their development.

Igor Sikorsky Kyiv Polytechnic Institute participates in the international project "Danube Wetlands and flood plains Restoration through systemic, community engaged and sustainable innovative actions" (DaWetRest , Horizon Europe).

Project objective : to develop and implement innovative solutions to overcome challenges related to biodiversity loss , water quality, the impacts of climate change and ensure the sustainable use of inland and coastal wetland ecosystems of the Danube basin.

The university is involved in scientific research, the analysis of environmental solutions, interaction with local communities and dissemination of knowledge, contributing to the restoration of wetlands, and the formation of sustainable environmental and socio-economic practices.



15 LIFE ON LAND



LIFE ON LAND

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation, and halt biodiversity loss

Ecosystem educational programs

For example, the Kyiv Polytechnic's Department of Bioenergy, Bioinformatics and Environmental Biotechnology offers the educational program "**Green Biotechnology of Mushrooms for Sustainable Development**" to deepen students' knowledge and develop their skills at using fungi in biotechnology to obtain new environmentally safe nutraceutical, feed, products, biopesticides, and energy carriers, among others; work with fungal cultures that are producers of valuable metabolites; understanding the methodology for designing biotechnological production facilities in which fungi are used as the main producer, the analysis of the composition of waste generated and techniques for its recycling or disposal.

A new educational program has been introduced: 183 "**Technologies of Environmental Protection**".

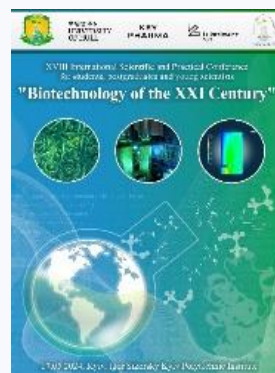
The Igor Sikorsky Kyiv Polytechnic Institute's Environmental Protection Policy **is in effect**.



Igor Sikorsky Kyiv Polytechnic Institute carries out research and scientific and practical activities aimed at supporting the sustainable functioning of ecosystems and preserving biodiversity.

On May 17, 2024, the Faculty of Biotechnology and Bioengineering held the 18th International Scientific and Practical Conference of Students, Postgraduates and Young Scientists "**Biotechnology of the 21st Century**", dedicated to the issues of environmental safety, bioremediation, restoration of natural environments and the application of biotechnology to preserve species diversity.

The conference was held in cooperation with several scientific and educational institutions based in Ukraine, and international partners from the United States and Poland.





PEACE, JUSTICE AND STRONG INSTITUTIONS

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

The university annually publishes financial data in the open access world

The following policies are in good progress:

Igor Sikorsky Kyiv Polytechnic Institute's Policy on Stakeholder Engagement in University Development;

University's Anti-Corruption Policy, Anti-Bribery Policy, and Integrity Development Policy

Anti-corruption measures

The university has appointed an authorized person for the prevention and detection of corruption at Igor Sikorsky Kyiv Polytechnic Institute: The Associate Professor at the Department of Theory and Practice of Management, Yana TSYMBALENKO, who acts on the basis of the following regulatory framework:

- Anti-corruption program
 - Anti-corruption legislation
 - University's anti-corruption policy, anti-bribery, and integrity development policy
 - Procedure for accepting and considering reports on possible facts of corruption or corruption-related offenses, other violations of the Law of Ukraine "On Prevention of Corruption" at Igor Sikorsky Kyiv Polytechnic Institute
- Anti-corruption documents are regularly published: reports, research, and memos

General education, upskilling

The Kyiv Polytechnic's Faculty of Sociology and Law offers training under the following master's and bachelor's programs:

- educational program "**Public Administration and E-Governance**" (master's degree), focused on enhancing the efficiency of state institutions by strengthening the professional capabilities of civil servants to act in the face of the challenges of war, the progress of digitalization, as well as in conditions of uncertainty, and to implement management decisions in order to achieve sustainable development goals.

- educational program "**Conflict Resolution and Mediation**", whose graduates are qualified to participate in the settlement of conflicts and mediation, prevention of conflicts at the local, regional and global levels.

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graduates qualify in law and enforcement-related courses





PEACE, JUSTICE AND STRONG INSTITUTIONS

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Supported by the Swedish Institute, the joint grant-funded project "Drivers of Democratization" is carried out by the YMCA Ukraine and the Igor Sikorsky Kyiv Polytechnic Institute

The common goal of the project is to strengthen the youth sector as a driver of democratic change in Ukraine.

The project is focused on:

1. supporting Ukraine's efforts to integrate into the EU by stimulating the acquisition of knowledge and skills related to democracy, the development of democratic principles and values among young people (social and legal responsibility, cultural tolerance, critical thinking and skills needed for participation in democratic governance).



2. promoting the formation of a democratic political culture among youth as a fundamental condition for the successful integration of Ukraine into the EU.





PARTNERSHIPS FOR THE GOALS

Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

Expanding international cooperation

46 visits of foreign delegations from **17** countries, particularly **19** delegations of representatives of the diplomatic corps, including **9** heads of foreign embassies in Ukraine .

200+ international agreements, **170+** international partners, **130+** academic mobility agreements, under which **224** students and **340** teachers traveled.

140+ international projects were carried out, including **13** large-scale projects under the HORIZON EUROPE and NATO Science for Peace and Security programmes.

60+ joint international centers and laboratories.

Igor Sikorsky Kyiv Polytechnic Institute cooperates with leading corporations and firms, such as **Boeing, Haas, Motorola, Siemens, Festo, Samsung, Intel, Ajax**, etc.



International cooperation within European alliances and associations



Igor Sikorsky Kyiv Polytechnic Institute is a full member of the ATHENA alliance, is a partner in key European alliances, particularly ENHANCE, EUTOPIA , and EPICUR. Our university has applied for associate membership in ECIU and EPUC.

We maintain an active interaction with leading European associations, including CESAER, UNICA, EUA, BSUN and ECHA.

Igor Sikorsky Kyiv Polytechnic Institute collaborates with non-governmental organizations to achieve the SDGs through:

- student volunteer programs;
- research programs;
- development of educational resources.





PARTNERSHIPS FOR THE GOALS

Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

Extending cooperation with the **CESAER association**, a number of Kyiv Polytechnic employees participate in the work of 7 thematic groups (**Task Forces**), particularly Task Force **Sustainable Funding** (advocating to shape EU funding programmes in research, education and innovation), Task Force **Benchmark** (engagement with ranking agencies), Task Force **Innovation**.

The University of Strathclyde hosted the CESAER Annual Meetings on October 16-18, 2024.



NARODOWA AGENCJA
WYMIANY AKADEMICKIEJ



In 2024, a two-year project was successfully carried out by Igor Sikorsky Kyiv Polytechnic Institute together with the Warsaw University of Technology and ENHANCE partners, supported by NAWA within the framework of the "Solidarity with Ukraine" program. In particular, 132 Kyiv Polytechnic representatives, including students, postgraduates, scientists and teachers participated in the project.

International Scientific and Practical Conference "Driving Economic Recovery: Scaling Digital Education Experiences in Higher Education Institutions"

On September 19-20, 2024, the Igor Sikorsky Kyiv Polytechnic Institute hosted an international scientific and practical conference "Driving Economic Recovery: Scaling Digital Education Experiences in Higher Education Institutions", which brought together some 60 participants from academic, public, business and government organizations in Ukraine and across the world. The conference was dedicated to the role of digital education in economic recovery. Its format included four sessions discussing new approaches to transforming education and integrating innovations.



The sessions covered topics such as gender equality in digital education, university-business collaboration, updating pedagogical tools for teaching IT subjects, and the social impact of migration. Among key recommendations are the implementation of flexible learning models, organization of interdisciplinary programs, integration of artificial intelligence into education, and the creation of educational initiatives to support Ukrainian refugees and re-integrate de-occupied territories.





PARTNERSHIPS FOR THE GOALS

Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

International Forum "Ecology and Peace"

The International *Ecology and Peace* Forum, organized by the Ukrainian Peace Council, the *Sikorsky Challenge Ukraine* Innovation Ecosystem, and the International NGO Council for Environmental Safety took place at Igor Sikorsky Kyiv Polytechnic Institute on May 15–16, 2024.

Co-organizers: Ukrainian Chamber of Commerce and Industry, Building Chamber of Ukraine, All-Ukrainian NGO Women's Union of Ukraine, NGO International Institute – Association of Regional Ecological Problems, and NGO Ukrainian Alliance.

The forum united the efforts of civil society and international peacekeeping organizations in countering russia's ecocide in Ukraine in the context of the Ukrainian Peace Formula.

The Forum was attended by **218** participants, including state and political figures, scientists, Ukrainian and international experts, teachers and students from **18** universities and institutions of the National Academy of Sciences of Ukraine, government agencies, volunteer and public organizations of Ukraine, the United States, Japan, Switzerland, and the United Kingdom.

The forum featured 31 reports and 8 speeches covering the following topics:

- Humanitarian demining of Ukrainian lands,
- Countering Russian nuclear terrorism in Ukraine,
- Environmental and energy security,
- Water and reservoir purification,
- russia's environmental crimes in Ukraine in the light of international law.

A **startup projects** and engineering developments **competition** in the environmental area and humanitarian demining was staged within the framework of the forum (the international jury deliberated **46** projects, shortlisted **20** finalists, and decided **7** winners).

The Forum approved the Declaration, which was sent to ECOSOC (UN), UNESCO, IAEA, the European Commission, other influential international organizations, and the governments of the world.





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Chore Department

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Department for Student Affairs

Department of Educational Process Organization

Case Management Department

Department of Educational Process Quality

Center of International Education

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Faculty of Biomedical Engineering

Faculty of Sociology and Law

Faculty of Chemical Technology

Faculty of Biotechnology and Bioengineering

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The project was steered and overseen by Olena AKIMOVA,

Dean of the Faculty of Sociology and Law

