



UNIVERSITAS NEGERI YOGYAKARTA

SUSTAINABILITY REPORT 2024



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SDG 1: NO POVERTY

NO	SASARAN STRATEGIS	PROGRAM STRATEGIS	INDIKATOR	PENANGGUNG JAWAB	SATUAN	TAHUN 2022		TARGET 2026
						TARGET	CAPAIAN	
	Bidang 01. Pendidikan							
	Bidang 04. Kemahasiswaan							
1	[S1] Terselenggaranya pendidikan yang unggul dengan proses pembelajaran inovatif yang mampu mengembangkan potensi peserta didik secara utuh, menghargai keberagaman, mengembangkan keilmuan pendidikan dan non kependidikan untuk menghasilkan lulusan yang profesional unggul, kreatif, inovatif yang bertakwa, mandiri, dan cendekia.	[P1] Peningkatan Kualitas Lulusan yang memiliki kemandirian kepribadian, moral, bidang keahlian yang mumpuni, dan kecakapan sosial secara komprehensif dan kualitas Input Mahasiswa melalui sistem seleksi mahasiswa baru yang transparan, akuntabel, efisien, efektif, non diskriminatif, afirmatif dan ekuitas	Persentase lulusan S1 dan Diploma yang Berhasil Memiliki Pekerjaan, Melanjutkan Studi, Atau Menjadi Wiraswasta (IKU 1)	BAK, FAKULTAS	%	60	81,95	81
2			Persentase Afiriasi Mahasiswa S1	BAK, FAKULTAS	%	20	22,2	20
3			Persentase Mahasiswa Asing Program Sarjana	BAK, FAKULTAS	%	0,13	0,129	0,155
4			Persentase Lulusan Sarjana (S1/D4) Tepat Waktu		%	-	-	75
5			Jumlah Lulusan S1 Bersertifikat Kompetensi	BAK, FAKULTAS	lulusan	88	375	600

Ensure sustainable partnership

Through the BIE-D program, UNY acts as a strategic partner in developing competitive and economically independent human resources at the regional level. Complementing this program, UNY also provides UKT subsidies for economically affected students and collaborates with local governments to distribute regional scholarships. These initiatives serve not only as financial support but also as instruments of social mobility, enabling students from low-income families to access quality higher education and improve their future socio-economic conditions.

Based on the 2023–2026 Strategic Plan of Yogyakarta State University (UNY), the institution has established an indicator titled “Percentage of Undergraduate Affirmative Admission” with a target of 20%. This affirmative policy reflects the University’s commitment to the principles of equity and inclusivity in higher education, and aligns with the concept of a bottom financial quintile admission target, namely efforts to ensure access to higher education for students from the lowest economic strata.



Community Anti-Poverty Programmes

Yogyakarta State University (UNY) implements the Kampung Emas Program (Education, Independence, Prosperity) as a model of community-based entrepreneurship development grounded in local potential, including agricultural processing, culinary products, handicrafts, and creative goods with economic value. Through a participatory educational approach, UNY lecturers and students provide training, business mentoring, and production assistance to residents in designated community partners.

SDG 1: NO POVERTY



The UNY Business Incubator demonstrates a strong commitment to supporting and empowering technology-based entrepreneurship. Its role continues to expand not only at the national level but also internationally through various entrepreneurship development programs organized in collaboration with ministries and strategic partners. The incubation activities focus on mentoring and guidance for young entrepreneurs to transform technology-based business ideas into market-ready enterprises capable of competing at the global level.

KONASPI XI 2024



Yogyakarta State University (UNY) participated in the 11th Indonesian National Education Convention (Konaspi XI), a national forum for LPTKs across Indonesia to discuss education policy and development. Through its involvement in this convention, UNY contributed to national dialogue on policy innovation and the strengthening of higher education's role in achieving Indonesia's education goals, reinforcing its position as an active institutional actor at the national level.



APAIE 2024 Conference

Yogyakarta State University (UNY) participated in the APAIE 2024 at the Perth Convention & Exhibition Center, Australia—an international forum that brings together higher education delegates from various countries to exchange best practices and explore academic collaboration. UNY actively engaged with international partners to initiate cooperation in education, research, student exchange, and other international programs. This participation reflects UNY's role in expanding its global network and strengthening its international presence through direct involvement in a major global education forum.

Campus Food Waste



UNY produces 488kg of food waste per week (equivalent to 25.3 tons/year from 18 canteens spread across UNY. with uneven distribution ranging from 10kg to 40kg. Various efforts such as the "Spend your meal" campaign to reduce food waste have been promoted in every canteen at UNY.

Student Hunger

UNY supports the Student Hunger program to achieve the "Zero Hunger" SDGs through various activities: entrepreneurial development and exhibitions of local food products, scholarship giveaways for student resilience, Kangen Market activities that preserve traditional cuisine, and internships to Japan in the field of agriculture and food. UNY also has business incubation, sustainable livestock innovation, and healthy food processing from local ingredients.

National Hunger

UNY plays a role in local food workshops, yard planting movements, animal feed innovations from magot and meniran leaves, Sambalago products, student food festivals, and the development of new products based on local basic ingredients. All of these activities strengthen food independence, entrepreneurship, and UNY's contribution to sustainable food security.



Durasi	:	Estimasi
Jumlah Kantin	:	18 kantin
Total timbulan sampah organik dari seluruh kantin	:	± 488 kg/minggu
Timbulan sampah organik per kantin per minggu	:	$488 \text{ kg} \div 18 \approx 27.1 \text{ kg/kantin/minggu}$
Timbulan sampah organik per kantin per hari	:	$27.1 \text{ kg} \div 7 \approx 3.87 \text{ kg/kantin/hari}$
Timbulan sampah organik per tahun (semua kantin)	:	23,432 kg/tahun

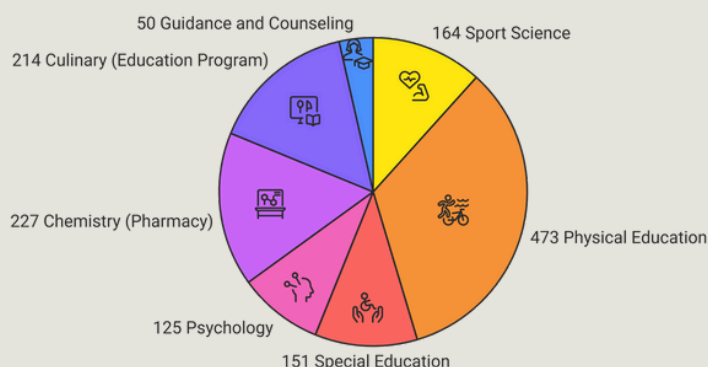
Collaborative Health Ecosystem

UNY's Faculty of Medicine builds strong partnerships with hospitals, community health centers, government and industry stakeholders including Panembahan Senopati Hospital (main teaching hospital), Prambanan Hospital, Dr. Soerojo Magelang Psychiatric Hospital, Bhayangkara Police Hospital, and Depok III & Pajangan Community Health Centers. At the international level, collaborations with Capital Medical University, Universiti Malaya, University of Amsterdam, and Technische Universität Dresden drive innovation in research and medical technology.



In 2024, Universitas Negeri Yogyakarta (UNY) produced 1,354 graduates from health and well-being-oriented programs, underscoring its strong commitment to advancing SDG 3. Most graduates (34.93%) came from the Physical Education cluster, promoting active lifestyles and physical literacy.

Well-being related Graduates by Department at UNY 2024



Made with  Napkin

Chemistry and Chemistry Education (16.77%) supported progress in health sciences and environmental safety, while Culinary Education (15.81%) strengthened public health through nutrition and food safety. Sport Science (12.11%) and Special Education (11.15%) enhanced inclusive health and wellness, and Psychology (9.23%) advanced mental health literacy and counseling services. Collectively, these programs embody UNY's holistic approach to fostering physical, mental, and social well-being in education and community development.



Community Health and Preventive Outreach

UNY supports active and healthy lifestyles through open-access facilities that serve both students and the wider community. The Health and Sports Center, GOR UNY, and UNY Kampus Wates Sports Complex offer high-quality spaces for physical activity, while the swimming pool and Randu Alas Park provide affordable, inclusive options for recreation and well-being. Revenue generated from public use helps sustain maintenance, ensuring long-term access to world-class health and fitness infrastructure.



Healthy and Smoke-Free Campus

Under Rector Regulation No. 3/2013, UNY enforces a 100% smoke-free policy across all academic, public, and worship areas. Supported by the Yogyakarta Health Office and community enforcement, the “Kampus Bebas Rokok” campaign aligns with the Health Promoting University movement, safeguarding respiratory health and fostering a clean, green, and sustainable learning environment.



Sustainable Health Promotion

From local clinics to global partnerships, and from mental health literacy to inclusive sports, UNY integrates education, innovation, and community engagement to advance SDG 3 – Good Health and Well-being. Through its teaching, research, facilities, and outreach programs, UNY ensures that healthy living, mental resilience, and social inclusion remain at the heart of its mission to empower humanity through education.





SDG 4: QUALITY EDUCATION



Number of graduates who gained a qualification that entitled them to teach at primary school level is **5710** (65.58%)

Lifelong Learning

Universitas Negeri Yogyakarta (UNY) exemplifies its commitment to lifelong learning by offering a wide array of public resources, events, and training programs aimed at broadening educational opportunities beyond its enrolled students. These efforts underscore UNY's dedication to providing inclusive learning access for the wider community.

One key aspect of UNY's outreach involves granting free access to various educational materials and programs for individuals outside the formal university system. This includes no-cost courses that award certificates, enabling community members to obtain official recognition for their acquired skills and knowledge. Moreover, UNY opens its campus facilities and advanced equipment to the public, allowing broader utilization of its resources. Complementing these in-person opportunities, UNY also offers free online educational content, ensuring that learners can participate regardless of their physical location. These initiatives are prominently featured on UNY's Glacier platform.

Public Events

UNY hosts a range of public lectures, workshops, and seminars, free of charge, that encourage community engagement and lifelong learning across diverse fields through Academic Affairs in collaboration with UNESCO TEC. UNY organized a STEM Strengthening Workshop on April 1, 2024, bringing together lecturers and school teachers to explore STEM education, teacher training, and future collaboration. This event highlights UNY's commitment to hosting educational programs that are open to the wider public, fostering broader impact and community engagement.

Vocational Training Events

The UNY team held public vocational training workshop attended by the residents of Padukuhan Serut and Padukuhan Terbah, Kulon Progo. The team taught the use of coffee grounds as a natural hair dye with antioxidant benefits, combined with eco-friendly oils to protect and nourish hair. The program aimed to develop vocational skills while supporting sustainable use of local resources, demonstrating UNY's dedication to lifelong learning and community well-being.

1237

Scopus Indexed Publications in
SDG 4 (2019-2024)



Education Outreach Activities Beyond Campus

Universitas Negeri Yogyakarta (UNY) exemplifies its commitment to lifelong learning through community-focused initiatives like the empowerment program at SLB-A Yaketunis Yogyakarta. This project improved Javanese script literacy for visually impaired students by introducing the innovative REPIN AJA teaching aid, developed by UNY students using a multisensory approach adapted from the SAVI method.

Lifelong Learning Access Policy

UNY's access policy guarantees inclusive lifelong learning for all, reflecting its commitment to nondiscrimination and community impact, as detailed in the 2023 Academic Regulations (<https://uny.ac.id/sites/default/files/2023-09/Buku%20Peraturan%20Akademik%20UNY%202023.pdf>)

Number of
first-generation
students starting a
degree

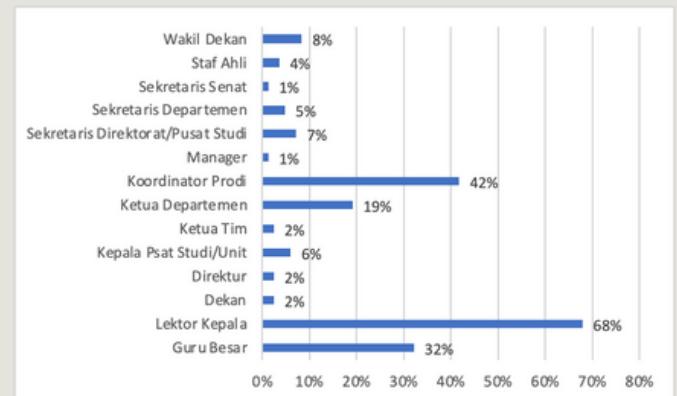
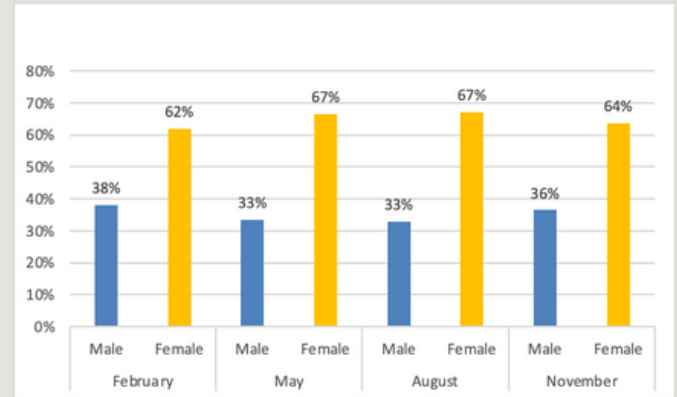
7249
or 66,97%

UNY and the Leap of Equality: The Dominance of Female Graduates in 2024

Yogyakarta State University (UNY) consistently supports equal access for women in higher education. This is reflected in the 2024 graduate profile, which consistently shows a higher number of female graduates compared to male graduates. The graph represents the cumulative number of graduates from FIPP, FBSB, FMIPA, FISHIPOL, FT, FIKK, FEB, SPs, and FV across doctoral, master's, bachelor's, and applied bachelor's levels. This trend highlights the dominance of female participation and academic achievement within UNY. The high percentage of female graduates also reflects the effectiveness of campus policies that promote equality and inclusivity, including non-discriminatory policies.

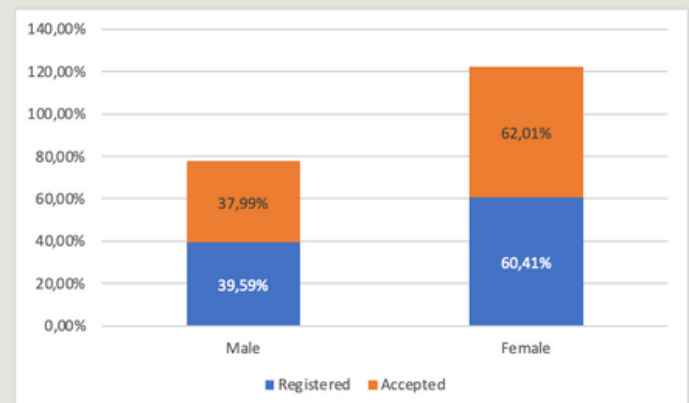
Strategic Leadership of Female Lecturers at UNY

Yogyakarta State University (UNY) demonstrates a strong commitment to gender equality through the representation of women in strategic academic positions. Throughout 2024, there were 84 female lecturers holding key roles at the university, faculty, and study program levels. Of this number, 68% hold the position of Lektor Kepala (Associate Professor), reflecting strong academic leadership capacity, and 32% are Professors, emphasizing institutional recognition of women's scientific competence and academic authority.



The Proportion of Female students at UNY

Based on the 2024 new student admission data of Yogyakarta State University (UNY), out of a total of 11,012 students accepted across D4 to S3 programs in 13 faculties, 62.01% were female, while 37.99% were male.



UNY's Inclusive Initiative: Childcare as a Commitment to Enhancing Women's Public Participation

UNY is committed to enabling female academics to keep contributing without domestic barriers. This is reflected in the establishment of the Kinanthinastiti childcare center (pictured above) and the Dharma Yogasanti daycare (TPA). These services are accessible to students, lecturers, and parents who need childcare support. The aim is to expand access for students with children to continue their studies and to increase women's participation in the public sphere.

68 Publikasi Scopus Isu Gender

UNY Gender Policy Framework: Advancing Equality and the Protection of Rights

In line with the UN's call to strengthen legal frameworks to eliminate discrimination against women and ensure gender equality, Yogyakarta State University (UNY) has established a set of institutional regulations that prioritize protection, equal access, and the empowerment of women, as summarized in the adjacent policies.

Partnerships and Collaborations in Promoting SDG 5 Gender Equality

Yogyakarta State University (UNY) demonstrates a strong commitment to expanding collaboration networks with partners at the local, national, and international levels to promote gender equality and women's public participation. This is shown through various partnerships, such as UNY lecturers serving as speakers for the political education school for the Family Welfare Movement (PKK) of Yogyakarta City organized by the City's National Unity and Politics Agency (as shown), the organization of international seminars in collaboration with Radboud University, Claremont School of Technology, Cambridge University, and the National University of Singapore, as well as multiple gender-themed research and community service programs. These collaborations reflect UNY's strategic role as a center of scholarship that advances cross-sector partnerships to foster an inclusive, gender-equitable society.

Nama Regulasi	Nomor Regulasi	Isi Regulasi
Maternity Leave	Peraturan Rektor UNY No 16 Tahun 2018 tentang Sumber Daya Manusia Universitas Negeri Yogyakarta	Kebijakan cuti melahirkan 3 bulan memastikan bahwa dosen dan tenaga kependidikan perempuan memperoleh waktu yang layak untuk pemulihan dan pengasuhan tanpa kehilangan hak kepegawaian maupun kesempatan karier.
Pencegahan dan Penanganan Kekerasan Seksual	Peraturan Rektor UNY Nomor 6 Tahun 2022 tentang Pencegahan dan Penanganan Kekerasan Seksual	UNY berkomitmen membangun mekanisme pencegahan, pelaporan, serta penanganan kasus kekerasan seksual melalui pembentukan tim khusus.
Perlindungan Aduan Penyintas atau Saksi Kasus Kekerasan Seksual	Whistleblowing System (wbs.uny.ac.id)	Pengaduan dugaan kasus kekerasan seksual dapat disampaikan secara langsung melalui dan identitas pelapor dijamin kerahasiaannya.
Kebijakan Kesetaraan Akses Pendidikan	Rencana Strategis UNY Tahun 2023-2026	Kebijakan antidiskriminasi di seluruh proses penerimaan mahasiswa baru tertuang dalam dokumen renstra yang menjamin masukan mahasiswa yang berkualitas melalui sistem seleksi mahasiswa baru yang transparan, akuntabel, efisien, efektif, non-diskriminatif, afirmatif, dan berkeadilan.



SDG 6: CLEAN WATER AND SANITATION

Support for Off-Campus Water Conservation

UNY supports off-campus water conservation through community service programs such as tree planting movements. These activities provide economic, social, and ecological benefits by ensuring access to clean water and proper sanitation. Tree planting enhances the soil's ability to absorb rainwater, reduces runoff, and increases groundwater reserves, emphasizing the importance of conservation, sustainable water management, and mitigate climate change impact.



Water Consumption

UNY conducts annual measurements of water usage, primarily sourced from seven deep wells. In 2024, UNY's water usage reached 125,782 m³ per month or 1,509,384 m³ per year. Compared to the previous year, there was an increase in water demand due to the growing number of students and campus activities. Through monthly monitoring, UNY identifies and evaluates usage patterns and implements actions to reduce environmental impacts around the campus.

Provision of Free Drinking Water

UNY provides free drinking water for students, staff, and guests through Smart Water Stations available in every work unit. These stations use technologies such as sensors, purification systems, and water quality monitoring to supply safe drinking water while promoting an eco-friendly lifestyle by encouraging the use of tumblers and reducing single-use plastic bottles. Water quality is checked two to three times per month, ensuring safety and supporting human rights to clean water.

Waste Water Treatment

To maintain pool water quality that is safe and healthy for swimming, UNY treats wastewater using a filtration system followed by chlorination. The system employs filters installed in circulation pumps to remove dirt and small particles, keeping the water clear and chemically balanced. This process eliminates debris such as leaves, insects, and dust while removing bacteria and viruses that may cause disease. The treated pool water is reused, demonstrating UNY's commitment to efficient water use and sustainable water resource management on campus and in surrounding areas.





SDG 6: CLEAN WATER AND SANITATION

Collaboration for Water Safety

UNY applies sustainable rainwater harvesting technology both on and off campus through the construction of infiltration wells. These wells store and absorb rainwater into the soil, reduce surface runoff, prevent flooding, and help replenish groundwater reserves. There are currently 906 infiltration wells on campus, with additional wells being built in nearby communities such as Karangmalang, Mrican, Santren, and Samirono. This initiative demonstrates UNY's strong commitment to sustainable water resource conservation.



Sustainable Water Extraction on Campus

To maintain pool water quality that is safe and healthy for swimming, UNY treats wastewater using a filtration system followed by chlorination. The system employs filters installed in circulation pumps to remove dirt and small particles, keeping the water clear and chemically balanced. This process eliminates debris such as leaves, insects, and dust while removing bacteria and viruses that may cause disease. The treated pool water is reused, demonstrating UNY's commitment to efficient water use and sustainable water resource management on campus and in surrounding areas.

SDG 7: AFFORDABLE AND CLEAN ENERGY

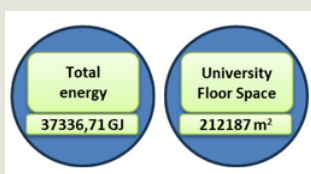
Ensure access to affordable, reliable, sustainable and modern energy for all

UNY is strongly committed to actively participating in the use of environmentally friendly and affordable energy. UNY Rector Regulation No. 16 of 2021 concerning Green Campus is proof of this commitment to providing tangible support for achieving environmental sustainability, which is a shared goal. The Energy Management Team has been given the authority to manage the use of environmentally friendly energy at affordable prices so that achievements each year will always be evaluated for improvement in the following year.



Collaboration with The Community

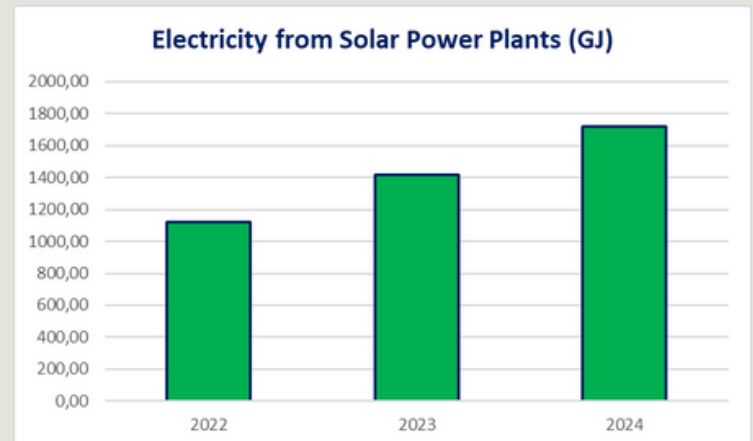
The commitment to realizing environmental sustainability through the use of affordable clean energy has become a culture for the UNY academic community, as demonstrated by the implementation of clean energy use in the communities surrounding the campus, as carried out by Nurhening Yuniarti et al. Every year, the UNY academic community provides assistance and guidance to the community in protecting and preserving the environment through the use of clean energy.



The use of clean energy in the community not only maintains environmental sustainability but also helps the community in using energy at an affordable cost. Several locations around the campus that are not yet able to use PLN electricity services are provided with assistance so that they can still use environmentally friendly electricity.

Renewable Energy Growth

UNY has gradually substituted the use of fossil fuels with environmentally friendly renewable energy. In the last three years, the use of renewable energy has increased significantly, proving that UNY cares about and actively participates in the use of clean energy.



Collaboration with Industry

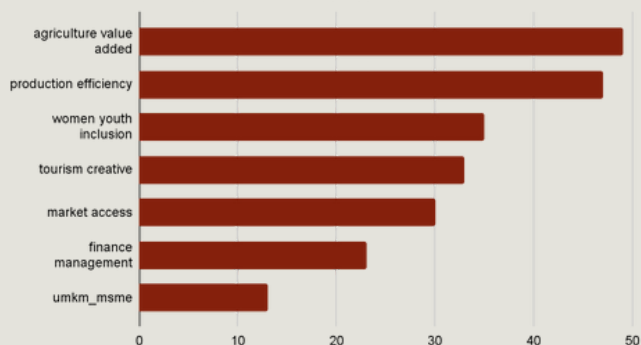
UNY realizes that the energy used to meet the current operational needs of the campus is dominated by fossil fuels. Therefore, continuous efforts to optimize the use of fossil fuels are carried out in various ways. In addition to increasing the capacity of renewable energy generators, UNY also makes systematic, planned, and integrated efforts to conserve energy resources and improve their efficiency. This means that UNY carries out integrated activities to control energy consumption in order to achieve effective and efficient energy utilization to produce maximum output through structured and economical technical measures to minimize energy utilization, including energy for campus operational activities.

SDG 8: DECENT WORK AND ECONOMIC GROWTH

UNY powers SMEs and community economies toward decent work and inclusive growth

In 2024, Universitas Negeri Yogyakarta (UNY) advanced SDG 8 by strengthening SMEs and community economies nationwide through integrated research and community service programs. Across Indonesia, UNY supported [number communities] communities—predominantly [small, medium] enterprises—delivering technology hilirisation to turn prototypes into market-ready solutions, method development to standardize good practices, resource development to build human and organizational capacity, and operational efficiency knowledge to raise productivity and competitiveness. These interventions are anchored in evidence-based research, field mentoring, and industry partnerships, enabling SMEs to upgrade processes, access wider markets, and create decent work.

UNY's Hilirisation Support to SMEs by Type (2024)



UNY Industrial Engineering Delivers Appropriate Technology and Product Design Innovations to Boost the Competitiveness of Gamplong Weaving

In 2024, UNY Industrial Engineering supported Gamplong Tourism Village, a natural-fiber weaving center that still relies on manual production, limiting output and income stability. UNY introduced a co-developed semi-automatic loom, manufacturing methods, diversified product design, and quality practices to raise productivity and value while preserving tradition. Over 20 artisans participated with local government support. This initiative advances SDG 8 by enabling decent work and inclusive economic growth through higher efficiency, skills upgrading, and better access to higher-value markets.



UNY invested Rp6.405 billion in 2024 to boost SMEs and community economies—leveraging internal and external grants

Digital Transformation of Sedyo Lestari Mushroom SMEs through UNY's Cloud Inventory

UNY deployed a cloud-based inventory system integrated with a digital marketplace for the Sedyo Lestari Mushroom group in Klangon, Argosari, Bantul. Previously, manual stock records caused errors, canceled orders, overstock, and limited market reach. The new system improves tracking and fulfillment and expands online sales for thousands of monthly baglogs, advancing SDG 8.

RoboSemp: Making Life Easier for Horticultural Farmers with Robotic Assistance

Farmers in Sedayu Village, Magelang Regency, especially those growing chili peppers, face high costs and frequent spraying requirements—challenges heightened during the rainy season. RoboSemp was developed to address these problems by making horticulture crop spraying more effective and efficient. Through its robotic technology, used by 428 farmers across 80 hectares, RoboSemp boosts spraying speed by 3.6-fold, reduces labor costs by 45–62%, and improves yields.



Innovation and Technology Predominated at UNY's KRTI 2024

This UNY's event is to highlight Indonesian youth's research capabilities and innovative contributions in aerial robotics. Contestants can put their skills to the test in five thrilling categories: Racing Plane, Fixed Wing, Vertical Take-off and Landing, Technology Development, and Long Endurance Low Altitude. This event allows students to enhance their creativity in aerodynamics as they engage with unmanned aerial vehicle technology for autonomous missions.



UNY Introduces Eco-Friendly Palm Oil Batik at the 2024 Suzhou Innovation Festival in China

This program connects Chinese technology companies with international innovations. Since 2015, InnovFest has welcomed over 4,600 participants from 2,400 organizations and featured more than 430 technology projects from over ten countries. In 2024, the event will focus on AI, digitalization, and sustainability.

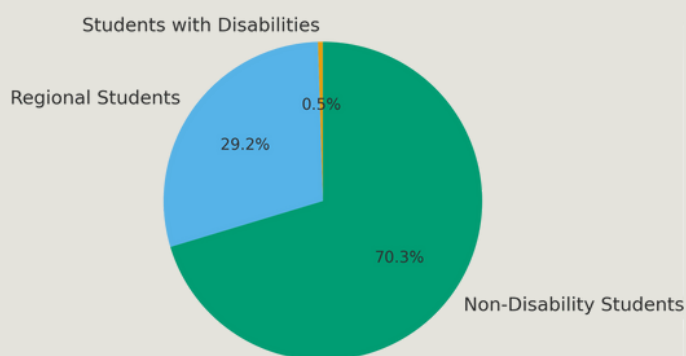


UNY and Equality in Education

UNY consistently prioritizes equality for all. A benchmarking visit by the Wonosobo DSU team to the Special Needs Education (SNE) Laboratory of the Faculty of Education reviewed the implementation of services for children with special needs. Through 21 community engagement schemes, UNY conducts sustained outreach on equality, especially in education. These ongoing initiatives enable knowledge exchange on service models, facilities, and inclusive education best practices, strengthen disability service networks between local stakeholders and the university, and encourage replication in schools and other regions.

University Policy

UNY affirms its commitment to admissions that are free from discrimination and to a safe, respectful academic environment. The principles of anti-discrimination are applied from admission through graduation through the Academic Quality Assurance cycle (SPMI) and the Quality Audit system (SI AUDI). The policy framework covers the prevention of discrimination, protection for reporters, and a prohibition of all forms of harassment, with handling mechanisms that are accountable and recovery oriented.



Creating an Inclusive Campus for All Students

Under Rector Regulation No. 9 of 2023 on Disability Services Guidelines, UNY ensures equality for students with disabilities from admission to graduation. At entry, the Disability Services Unit provides information and verifies individual needs, while selection activities such as UTBK are made accessible through room arrangement, assistance when required, clear wayfinding, and facility and health support. During study, individual needs are identified, course plans are adapted, learning materials are provided in accessible formats, assistive technology is enabled, reasonable accommodations are applied for tests and assignments, and psychosocial support is available. Throughout the journey, students can access scholarships, inclusive learning spaces, and responsive administrative services.

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UNY Free from Sexual Violence

UNY upholds a safe campus free from sexual violence under Rector Regulation No. 6 of 2022, which sets out prevention, protection, assistance, and recovery. Implementation and outreach are carried out by the PPKS Task Force through faculty visits every two months during 2024, and by annual peer counselor training run by UPT LBK, with the 2024 program held on 16 to 17 February. This series of actions demonstrates policy continuity, strengthened task force capacity, and sustained public education across the university community.

Research and Development for Equality for All

UNY affirms its commitment to equality through more than 24 research and development activities focused on inclusion across education, gender, and sustainability, yielding 111 Scopus indexed articles in 2024. These outputs strengthen the evidence base for policies that support students with disabilities and other vulnerable groups, foster cross disciplinary collaboration, and enhance UNY's research reputation within the 2020 to 2025 Strategic Plan aligned with the SDGs.



Policy



Arts and Heritage

The [Indonesian Education Museum \(MPI\)](#) is one of the evidences that UNY plays a significant role in **preserving cultural values and ancestral heritage**, which can be accessed for free or for a fee by the general public. Additionally, UNY provides full access to its [library](#) and sports facilities for its academic community, while other visitors have limited access. The presence of these facilities not only supports the implementation of the tridharma (three pillars of higher education), but also creates a positive impact on the social and cultural environment. This effort aligns with the goals of SDG 11, aimed at **creating an inclusive, safe, resilient, and sustainable environment** through the [preservation of cultural heritage](#) and the provision of [public spaces to support](#) sustainable community life.

UNY's commitment to creating a green and sustainable campus is manifested through its green space policy, in accordance with the [Mayor of Yogyakarta Regulation No. 17 of 2021 on the Implementation of Public Green Open Spaces and Public Facilities](#). In developing its construction plans, UNY has taken into account several regulations that form the foundation of its [Strategic Plan for 2023-2026 under PTNBH](#), as well as the [Ministry of Public Works and Housing Regulation No. 21 of 2021 concerning the Performance Assessment of Green Buildings](#). Furthermore, UNY has also developed the **green campus concept** based on the [Rector's Regulation No. 16 of 2021 on the Green Campus of Universitas Negeri Yogyakarta](#).

67 Scopus Indexed Publications in SDG 11 (2019-2024)





SDG 11: SUSTAINABLE CITIES AND COMMUNITIES

University expenditure on
arts, heritage &
sustainable infrastructure
Rp 84,725,953,928
(12.55 %)



The development plan for UNY is carried out as an effort to create a well-organized, inclusive, and sustainable university, considering the urgency of needs, efficiency, and environmental sustainability. One of the implementations is the provision of dormitories and faculty housing as part of an eco-friendly campus ecosystem to **create safe, affordable, resilient, and sustainable living areas**. UNY's commitment is demonstrated through the campus development masterplan document.



SDG 12: RESPONSIBLE CONSUMPTION AND PRODUCTION



In 2024, Universitas Negeri Yogyakarta (UNY) demonstrated a strong commitment to supporting the achievement of Sustainable Development Goal (SDG) 12: Responsible Consumption and Production. This commitment was reflected through a series of research projects, community service programs, and innovations focused on sustainable waste management. Academically, UNY's lecturers and students actively conducted studies on waste governance across the Yogyakarta region. The findings revealed significant improvements in waste management effectiveness, reaching 61.27%, a 30.7% reduction in waste generation, and an expansion of waste management services up to 68.85%. Other studies also highlighted the waste emergency situation in Yogyakarta City, particularly in relation to the management of inorganic waste in office areas, providing an empirical foundation for the development of environmental policies based on the 3R principles—Reduce, Reuse, and Recycle.



University Commitment to Sustainability

The impact of UNY's sustainability initiatives has become increasingly evident through both research implementation and the application of technology within the community. UNY's participation in the National Waste Awareness Day (Hari Peduli Sampah Nasional/HPSN) 2024 serves as tangible evidence of this commitment, where the university showcased plastic processing machines and recycled products that not only enhanced public literacy on waste management but also strengthened collaboration with local governments and industry partners. Furthermore, research-based data have been utilized as baseline indicators for evaluating future waste management policies, demonstrating UNY's contribution to evidence-based policymaking. The implementation of the Waste Management Application System (WAMAS) also underscores the university's transformation toward the digitalization of waste governance, facilitating more efficient waste management both within the campus and in partner communities.



UNY continuously strengthens its role in advancing food security and community resilience by ensuring that research outcomes are not confined to academic settings but are directly applied to real-life challenges. Research innovations developed by UNY’s lecturers and students—such as sustainable farming technologies, eco-friendly fertilizer production, IoT-based irrigation systems, and waste-to-resource models—have been implemented in local regions and community groups to improve agricultural productivity and efficiency. These initiatives empower farmers and rural communities to adopt sustainable practices that optimize natural resources while maintaining environmental balance. Through this integration of research and community engagement, UNY demonstrates its strong commitment to creating tangible solutions that contribute to sustainable food systems and responsible production practices.

Integrated Technology in Food Resilience

Through its Faculty of Mathematics and Natural Sciences (FMIPA), UNY developed the Audio Bio Harmonic System (ABHS) — an appropriate technology that utilizes sound waves to enhance the quality and productivity of food crops. The system operates by manipulating the natural frequencies of insects such as cicadas and crickets (ranging from 3,000–5,000 Hz) to create resonance with plant stomata, stimulating them to open and absorb nutrients more effectively. When combined with foliar fertilization using organic nutrients, this technology has been proven to increase potato yields by 60–80%. The ABHS is applied during morning hours when photosynthesis is most active, offering an affordable solution priced between **IDR 400,000–600,000**, compared to similar imported systems costing up to **IDR 9 million**. Supported by local government stakeholders, the program highlights the importance of natural biodiversity—particularly insect sounds—in modern agriculture



Rooftop Farming Initiative for Responsible Consumption

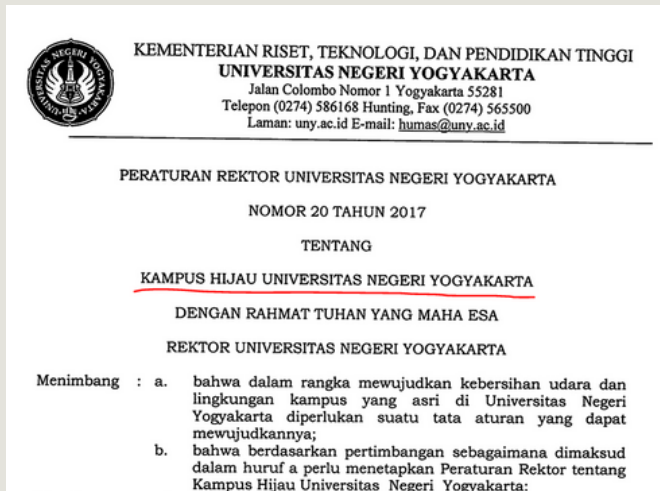
Universitas Negeri Yogyakarta (UNY) demonstrates its commitment to responsible consumption and sustainable food production through the implementation of a rooftop farming program on campus. This initiative transforms unused rooftop areas into productive green spaces that support local food cultivation and reduce the campus’s ecological footprint. The project involves lecturers, staff, and students in the cultivation of various vegetables such as spinach and mustard greens, using both soil-based and hydroponic systems. Organic waste from campus canteens and leaf litter are repurposed as compost or maggot feed, creating a closed-loop system that minimizes waste generation while enhancing soil fertility. Beyond serving as a source of fresh produce, the rooftop farming project functions as a living laboratory for research, education, and community empowerment related to urban agriculture, food security, and sustainability. It also strengthens awareness among the university community about the importance of local food systems, resource efficiency, and green innovation. Through this initiative, UNY integrates environmental stewardship into daily campus practices and reinforces its role as a model institution





SDG 13: CLIMATE ACTION

Institutional Policies and Commitments



UNY has launched its 2025-2050 Climate Action Plan, which serves as the institution's strategic guideline for climate change mitigation and adaptation. In this document, UNY sets an ambitious target of reducing its carbon footprint by 50% by 2040 and achieving full carbon neutrality by 2050. This commitment is reinforced by the Green Energy Policy, which requires all work units to prioritize energy efficiency and the procurement of environmentally friendly goods, and is supported by an annual budget allocation for the implementation of sustainability programs. This is stated in Rector's Regulations no. 17 of 2017 and 16 of 2021."

Mitigation Action: Reducing Carbon Footprint

Universitas Negeri Yogyakarta (UNY) is actively involved in disaster management efforts through a collaboration with the National Disaster Management Agency (BNPB) at the ADEXCO 2024 mitigation technology exhibition in Jakarta. This involvement was demonstrated by showcasing the latest mitigation technologies at the exhibition, which took place from September 11-14, 2024, and holding workshops on the development of environmental information systems on campus. All programs, coordinated by the Center for Disaster Mitigation and Climate Change, aim to improve disaster management capacity and climate change preparedness.



Partnership for Climate Action

Yogyakarta State University (UNY) proactively supports the Yogyakarta City Government in developing a disaster early warning system through a scientific approach encompassing four main pillars, from risk assessment to community preparedness. This strategic collaboration, which was appreciated by the Acting Mayor, is realized through various concrete programs, such as mapping vulnerable areas, developing information systems, outreach, and preparedness training, aimed at creating a more resilient and disaster-aware community.



SDG 13: CLIMATE ACTION

Education, Research, and Innovation



Local education programs on climate. UNY conducts education and campaigns related to climate change. This education takes the form of lectures delivered in class or by inviting experts to give lectures on climate change. Climate change campaigns take the form of seminars, active participation in meetings, exhibitions, and calls to action to mitigate climate change.



RESEARCH

Research in Number

Publication

38 Scopus documents

SDG 14: LIFE BELOW WATER

Rector's Regulation No. 16 of 2021 about the Green Campus outlines UNY's commitment to reducing pollution in aquatic habitats through university policies. The Chancellor's Regulation includes guidelines for using recycled materials, preventing chemical spills into waterways, and keeping the campus clean. Such practices can stop and lessen water contamination, particularly from operations that are next to land.



UNY, through a collaborative program with Universitas Brawijaya, had collected data on coral reefs and reef fish as part of monitoring the abundance of organisms on Tabuhan Island. This serves as the basis for the Samudera Bhakti fishermen's group in protecting and managing marine conservation areas.



UNY in collaboration program with Universitas Negeri Medan, to conserve biodiversity of Toba lake

8 komunitas masyarakat,
2 mata air, 13 jenis tegakan pohon, 13 jenis capung, 19 jenis kupu, 12 jenis reptil dan 9 jenis burung.
9 jenis true mangroves,
208 jenis ikan karang
25 hektare ekosistem terumbu
10 hektare ekosistem mangrove
2 organisasi internasional



involved to conserve
10 hectares
of the mangrove ecosystem

in
Collaboration
with **8** Local
Communities

Jumlah kegiatan:
13 terindeks sinta

24
scientific articles
indexed by scopus



SDG 15: LIFE ON LAND

UNY Policy to Maintain Life on Land



A key pillar of the UNY Green Campus initiative, as stated in Rector's Regulation No. 16 of 2021, is its commitment to biodiversity. The regulation provides comprehensive guidance for the conservation of indigenous plants and animals. Significantly, its scope extends beyond the immediate campus area to include any off-site locations impacted by UNY's activities, ensuring that the university's ecological responsibility is holistic. This approach fosters the creation of a sustainable ecosystem and enhances campus biophilia, integrating natural heritage into the university's identity.

Integration of Research and Community Services in Learning Process

Maintaining biodiversity in campus area has been UNY's commitment since 2021. Species monitoring including plants and animals has been conducted twice every year since 2021 as part of UNY responsibilities in protecting plants and animals.

Integration of Research and Community Services in Learning Process



UNY has also been committed to building and maintaining resilient ecosystems and biodiversity through research and community services. For example, an eco education forest program which aimed for biodiversity awareness and its potential as a tourism attraction. Another activity such as guest lecture and collaborative program in preservation and conservation of native orchid in Indonesia with University of Udayana, Bali.





University Contribution to Government and Public Institutions

The project shows that Universitas Negeri Yogyakarta has taken an **active role in the Expert Assistance for the Development of Industrial Design Institutions (PDIN)** that imply the increase of academic capacity in policy formulation and industrial design institutions, especially in the aspects of human resources, governance, and public-private sector collaboration.



Facilitated by UNY in the context of **mitigating biodiversity threats** in Indonesia with the World Wild Fund Indonesia. This program presents practitioners of the **World Wide Fund for Nature (WWF) International**. Febri Anggriawan Widodo, that introduced to the global challenges of declining animal populations, Indonesia's strategic position as a mega biodiversity country, and conservation strategies that can be implemented. The impact on the community is the creation of a generation of biologists who are more environmentally conscious, ready to contribute to research, advocacy, and real action on animal conservation, thus ultimately strengthening efforts to maintain the sustainability of the ecosystem in Indonesia.

Promoting Law and civil comprehension through curricula

Law enforcement and civic courses in the Public Administration, Communication, Civic Education, Social Studies, and Sociology Education Study Programs of UNY are realized through **the integration of curriculum based on legal values, public ethics, and social responsibility**. Its activities include thematic lectures, cross-study program discussions, public policy session simulations, and community-based social projects. Students are invited to understand the relationship between law, public communication, and citizen participation. The impact can be seen in **increasing legal awareness, policy advocacy skills, and social sensitivity of students** in encouraging better governance and democratic life with integrity at the local and national levels.



8707
Graduates



518

Graduates of law and civic enforcement courses



SDG 17: PARTNERSHIP FOR THE GOALS



Institutional Regulatory Policy

UNY's commitment to sustainable partnership is underpinned by its strong relevance and presence in creating and sustaining global-local collaborations and making meaningful and measurable impact on education, research and community development. It envisions university as a centre for sustainable creativity, innovation and excellence. Its mission for strengthening its role as a world-class university is achieved through impactful partnership, with global-local mindset, multi helix (government, university, community, industry, media) participation yet guided by its leadership in education and training discipline. UNY's vision and mission speak to its vital contribution in national, regional and global consortium such as the Korea-Indonesia Public Universities Academic Network Consortium (PUAN Consortium).

Ensure sustainable partnership

(17.2.2) UNY is committed to extending partnership with national, regional and global partners to achieve sustainable goals through collaboration in education, research and community development. International Conference on Educational Research and Innovation is an annual academic networking and knowledge sharing forum that transcends local collective effort to global impact on innovation-based solutions in tackling local issues. In 2024, ICERI UNY involved key researchers from government, organisations and institutions to share best practices and set directions for cutting-edge research and innovation. UNY led by example in promoting groundbreaking research that contributed to solving local challenges. A team of researchers in the Faculty of Mathematics and Natural Sciences of UNY emphasised UNY's contribution to creating food and nutrition security among rural communities. The team conducted a two-day training and mentoring program on household fish farming for residents in Bugel Village, Panjatan Subdistrict, Kulon Progo. The program, held on August 10–11, 2024, at the Bugel Village Hall, focused on promoting sustainable fish cultivation practices.



UNY contribution to Government Institutions

(17.4.1.) Students' shaping the future of their city

Following the MOA signing between 3 faculties of UNY and the Municipal Government of Yogyakarta, UNY's thematic internship program was launched and made a real impact on achieving Yogyakarta Government goals for promoting Jogja as a Sister City with (1) Hluboká Nad Vltavou, The Republic of Ceko, (2) Varaždin, the Republic of Croatia, (3) Guanajuato, the Republic of Mexico, and (4) Tacoma, the US. The 24 students implemented their learning in the Departments of Informatics Technology, Informatics Technology Education, German, French, and English Languages Education and of English Literature by participating in government priorities to create networking events and promotional websites that market Yogyakarta's as a city of culture and education.



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