

SDGs' REPORT 2026 · SDG 12

Responsible Consumption and Production

UNESA is buying responsibly, weighing and recycling its waste and reporting its progress.



Programme participants and residents of Lidah Kulon, Surabaya, prepare eco-enzyme from organic waste at a community waste-management workshop run by UNESA's Faculty of Languages and Arts, 4 April 2026.

SDG 12 AT A GLANCE

A campus that sorts, weighs and recycles its own waste

SDG 12 asks universities to buy responsibly, cut and recycle waste, and report on their progress. UNESA records every load of campus waste, recycles paper, plastic and organic material, and sends hazardous waste only to a licensed processor. This report covers the rules, the records, the recycling, the people and the reporting behind that work in 2025 and 2026.

HOW UNESA WORKS ON SDG 12

The Directorate of Smart Sustainability Campus (USSC) runs the waste depot, the TPS 3R recycling site and the waste records. The Procurement Management Unit (UPPBJ) and the Directorate of Planning, Finance and General Affairs handle purchasing. The Faculty of Medicine and Klinik UNESA hand over hazardous waste. The Directorate of Innovation, Ranking and Scientific Publication (IPPI) and the Directorate of Information and Communication Technology run the GreenMetric data, and the SDGs Center publishes the reports.

This report is one of seventeen: each SDG has its own report, built from the evidence pages that UNESA publishes at sdgscenter.unesa.ac.id. Every figure here comes from a document or news item listed on the sources pages.

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SDG 12 online: every evidence page, with its sources, under SDG metrics at sdgscenter.unesa.ac.id

SDG 12 AT UNESA IN 10 FIGURES

Rp255bn
spent with local micro, small and medium enterprises in 2025 (Rp254.7 billion)
PAGE 4

83 loads
of waste weighed and logged at the campus depot in nine days of 2026 (5,068 kg)
PAGE 5

4.9 t
of sorted recyclables weighed in September 2026 (4,946 kg)
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28.29 t
of organic waste produced from July 2025 to June 2026, about 97% treated on campus
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94%
of campus waste recycled or treated in 2025: an estimated 46.88 of 49.67 tonnes
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1.9 t
of paper recycled into raw material every month in 2025
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2.1 t
of hazardous waste handed to a licensed processor, October 2025 to August 2026
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23
hazardous waste types, each with a written procedure, in the city directive of 2023
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1,675
of 1,800 points: UNESA's UI GreenMetric waste score for 2025
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15th
among state legal-entity universities in UI GreenMetric 2026; 28th of 2,100+ nationally
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POLICY AND GOVERNANCE

Rules that guide how UNESA buys, sorts and reports

UNESA's written rules on buying, the campus environment and waste date from 2023 to 2026. Together they set how the university purchases, sorts, weighs, recycles and reports.

BUYING

The Rector's Circular on Sustainable Procurement, signed on 31 July 2023, asks the university community to weigh environmental, social and economic benefits when buying. It calls for suppliers with sustainability policies, environmentally friendly packaging, local traders and seasonal food, less paper and printer ink, more recycled goods and sustainable products from small enterprises.

Rector's Regulation Number 9 of 2026 on the Procurement of Goods and Services, set on 2 February 2026, replaced Regulation 10 of 2023 and its amendment of 18 September 2024. It lists sustainable procurement, domestic products and the participation of micro and small enterprises among its aims, and it sets an ethics code for every purchase.

THE CAMPUS ENVIRONMENT

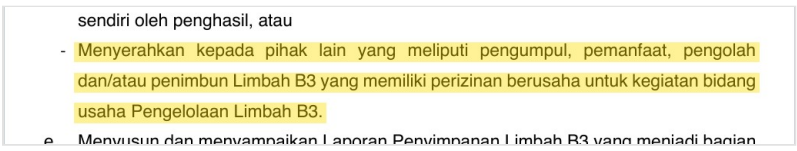
Rector's Regulation Number 12 of 2026 on safety, occupational health and the environment, set on 14 April 2026, describes the eco-campus programme: policy steps that include a regulation to reduce waste, waste sorting, recycling and composting, a campus waste bank, and environmental education.

The Surabaya city government approved the environmental evaluation document of the Ketintang campus on 28 July 2025. In it UNESA commits to record its domestic waste by type every day, to sort it under the reduce, reuse and recycle (3R) principle, and to report to the city environment office every semester.

WASTE PROCEDURES

The Directorate of Smart Sustainability Campus (USSC) issued a procedure for each step of waste handling: recording processed and sold waste (1 July 2026), receiving and sorting waste at the TPS 3R site (7 August 2026), separating waste in canteens and food tenants (7 August 2026) and collecting waste from business units (7 August 2026).

Hazardous waste follows a procedure that the Rector approved on 7 July 2025 and a technical directive that the Surabaya City Environment Office issued on 13 November 2023.



sendiri oleh penghasil, atau

- Menyerahkan kepada pihak lain yang meliputi pengumpul, pemanfaat, pengolah dan/atau penimbun Limbah B3 yang memiliki perizinan berusaha untuk kegiatan bidang usaha Pengelolaan Limbah B3.

e. Menyusun dan menyampaikan Laporan Penyimpanan Limbah B3 yang menjadi bagian

IN THE POLICY

Technical Directive No. 600.4.1/41401/436.7.10/2023 of the Surabaya City Environment Office, issued on 13 November 2023, Annex I, point 2(d), page 19. The highlighted lines say that hazardous waste is handed over only to a collector, user, processor or disposal operator holding a business licence for hazardous-waste management.

RESPONSIBLE BUYING

Rp254.7 billion spent with local businesses in 2025

UNESA buys food, supplies and services under a published procurement regulation. A large share of its spending goes to local micro, small and medium enterprises (MSMEs).

Rp255bn
spent with local MSMEs in 2025 (Rp254.7 billion)

Rp44bn
on supplies and consumables

Rp29bn
on crafts, souvenirs and local products

Rp21bn
on food and catering

WHAT UNESA BUYS

UNESA's 2025 impact report, which the Rector signed on 6 August 2026, records Rp254,703,641,239 spent with local MSMEs in 2025, using data from the Directorate of Planning, Finance and General Affairs. The report says the spending gives local caterers, printers, suppliers, craftspeople and service providers a market, and encourages them to improve their products.

HOW SUPPLIERS ARE CHOSEN

Under Rector's Regulation 9 of 2026, a supplier registers in UNESA's vendor management system with its business licence, tax number, company deeds and financial statements. Everyone involved works under an ethics code that refuses gifts, commissions and rebates, a supplier that colludes can be blacklisted for two years, and the internal audit unit monitors procurement.

SERVICES FROM OUTSIDE PROVIDERS

UNESA buys catering, cleaning, security and transport services from outside providers. The Ketintang environmental document covers a canteen and food court of 30 tenants, and records that canteen outlets give priority to Surabaya MSMEs. Since 7 August 2026 a USSC procedure asks canteen and food tenants to separate food waste, used cooking oil and packaging.

SPENDING WITH LOCAL MSMES IN 2025, BY TYPE OF PURCHASE

TYPE OF PURCHASE	SPENDING IN 2025 (RP)	SHARE
Other forms of procurement	121,060,853,801	47.5%
Supplies and consumables	44,182,950,195	17.3%
Crafts, souvenirs and local products	28,747,739,759	11.3%
Cleaning, security and transport services	25,551,996,595	10.0%
Food and catering	21,230,532,738	8.3%
Equipment rental and technical services	9,258,737,725	3.6%
Printing and stationery	4,670,830,426	1.8%
Total	254,703,641,239	100%

MEASURING WASTE

Every load of campus waste is weighed and logged

USSC records the waste that arrives at the campus depot, the materials it sorts and sells, and what it produces. The records feed a monthly report and the university's GreenMetric data.

83 loads
logged at the waste depot from 28 September to 6 October 2026 (5,068 kg in all)

15+
buildings and units delivered waste, from faculties to the dormitory and food court

4,946 kg
of sorted recyclables weighed in September 2026, about 3 t of it PET plastic and 1,381 kg duplex board

THE DEPOT LOG

USSC records every load that reaches the waste depot of the Lidah Wetan campus: the date, the arrival time, the building or unit it came from and its weight in kilograms. The 83 loads came from more than 15 sources, among them faculties, the Laboratory School, the Rectorate, the library, Graha UNESA, the student dormitory, a food court and a faculty canteen, sports facilities and campus tenants.

DAILY WEIGHTS, MONTHLY REPORT

A procedure signed on 1 July 2026 asks USSC to weigh each day every batch of compost, refuse-derived fuel and liquid fertiliser, and every category of sorted material ready for sale, and to enter the weights the same day in a register. The Head of the Ecology and Education section drafts a monthly report, the Smart Environment sub-directorate verifies it and the USSC Director approves it.

FROM THE DEPOT GATE TO THE MONTHLY REPORT

1. Arrive and log
Each load is logged with its date, time, source and weight.

2. Check and sort
At the TPS 3R site staff check each load and record its initial weight or volume by category.

3. Process
Organic waste goes to the maggot and compost units. Paper and plastic are pressed or shredded.

4. Weigh and sell
Compost, fuel pellets, liquid fertiliser and recyclables are weighed each day and entered in the register with sale receipts.

5. Report
A monthly recap is verified and approved by the USSC Director.



A collection vehicle brings a load of campus waste to the waste depot at the Lidah Wetan campus, 5 October 2026.

RECYCLING

Paper, plastic and organic waste are kept in use

UNESA runs a waste bank, a TPS 3R recycling site and four processing machines. Its 2025 impact report gives monthly outputs, and its portal figures show how much waste it recycled or treated.

1.9 t
of paper recycled into raw material each month in 2025

500 kg
of compost made each month for the campus green space and forest

1.3 t
monthly capacity of the plastic press, which turns bottles into industry raw material

97%
of 28.29 t of organic waste treated on campus, July 2025 to June 2026

THE FACILITIES

A waste bank collects and sorts waste from the academic community and neighbouring residents. The TPS 3R site processes waste from UNESA's work units. Four shredding, sorting and processing machines, among them a plastic-bottle press, a sorting machine and a bottle dryer, turn it into raw material.

ORGANIC WASTE

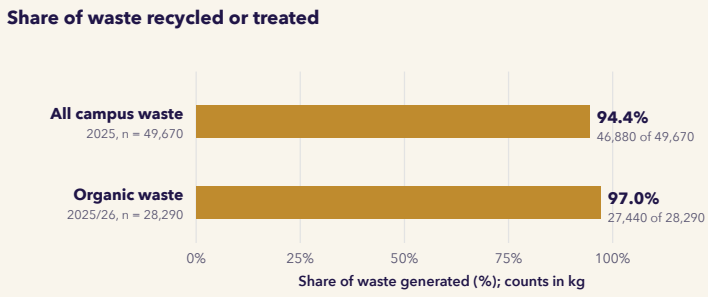
Between July 2025 and June 2026 UNESA reported about 28.29 tonnes of organic waste, of which about 27.44 tonnes were treated on campus by black soldier fly larvae and aerobic composting. The maggot unit processes an average of 77.5 kg a day.

RECYCLING RATE

UNESA's portal figures for 2025 give an estimated 49.67 tonnes of waste generated and 46.88 tonnes recycled or treated, 94.4 percent.

A MODEL FOR OTHER UNIVERSITIES

On 9 May 2026 the Minister of Higher Education, Science and Technology visited the integrated sorting, processing and recycling facilities, on the day UNESA declared its Go Zero Waste programme. The Minister praised the campus for managing its waste itself and encouraged other universities to follow.



Estimated 2025 portal figures; organic waste July 2025 to June 2026, UI GreenMetric submission.

MONTHLY RECYCLED OUTPUTS, 2025

OUTPUT	PER MONTH	USE
Pressed plastic bottles	Up to 1.3 tonnes (capacity)	Raw material bought by plastic-processing companies
Recycled paper	1.9 tonnes	Recycling raw material for industry
Compost	500 kilograms	Campus green open space and campus forest
Eco-enzyme	Made from household organic waste	Farming and soil improvement

HAZARDOUS WASTE

Hazardous waste goes to a licensed processor

Laboratories, clinics and workshops produce hazardous waste. UNESA stores it under written procedures and hands it to a licensed processor, with a manifest for every load.

23
waste types with a written procedure each, in the city directive of 13 November 2023

2 to 365
days of maximum storage, depending on the waste type

2,075 kg
handed to a licensed processor, October 2025 to August 2026

THE RULES

The Surabaya City Environment Office issued its technical directive to the Rector after verifying the Lidah Wetan campus on 16 August 2023. It lists 23 waste types, among them infectious clinical waste, expired pharmaceuticals and chemicals, used oil, batteries, lamps and electronic waste, with a procedure for each. UNESA packs, weighs, labels and stores each type in a dedicated store and keeps a waste balance.

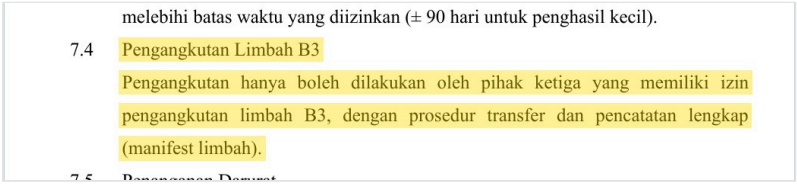
The environmental document approved for the Lidah Wetan campus on 27 February 2024 commits UNESA to report its logbook, waste balance and electronic manifest copies to the city every three months.

HANDING OVER

The Faculty of Medicine signed a one-year agreement on 6 January 2026, valid from 1 February 2026, with a processor licensed by the Ministry of Environment. Klinik UNESA signed its agreement on 28 July 2026. The processor collects with a transport document or an electronic manifest, is responsible for the waste from UNESA's gate and issues a treatment certificate. UNESA packs sharps in safety boxes and other infectious waste in yellow bags with the hazard symbol.

HAZARDOUS WASTE HANDED TO A LICENSED PROCESSOR, EACH LOAD UNDER A MANIFEST

COLLECTION DATE	UNIT	WASTE	KILOGRAMS
29 October 2025	Faculty of Medicine	Expired chemicals	880
29 October 2025	Faculty of Medicine	Infectious clinical waste	70
12 June to 15 August 2026	Klinik UNESA	Infectious clinical waste, five loads of 138, 118, 345, 260 and 264 kg	1,125
Total			2,075



melebihi batas waktu yang diizinkan (± 90 hari untuk penghasil kecil).

7.4 Pengangkutan Limbah B3

Pengangkutan hanya boleh dilakukan oleh pihak ketiga yang memiliki izin pengangkutan limbah B3, dengan prosedur transfer dan pencatatan lengkap (manifest limbah).

7.5 Penanganan Darurat

IN THE POLICY

Procedure No. 01/11/P1/UN38.I/2025 on hazardous and toxic waste, approved by the Rector on 7 July 2025, point 7.4. The highlighted lines say that hazardous waste is transported only by a third party holding a hazardous-waste transport licence, with complete transfer procedures and manifest records.

SINGLE-USE ITEMS

Fewer disposables on campus

UNESA cuts disposable plastic and paper with written steps, free drinking water, campaigns in faculties and digital services.

WRITTEN STEPS

UNESA's Ketintang environmental document, approved on 28 July 2025, lists reducing paper and plastic use and providing reusable shopping bags, in line with Surabaya Mayor's Regulation Number 16 of 2022 on reducing plastic bags. Rector's Regulation 12 of 2026 names a regulation to reduce waste among the steps of the eco-campus programme.

DRINKING WATER

UNESA provides free drinking-water dispensers in campus buildings and campaigns for students, lecturers and staff to bring personal tumblers instead of single-use bottles. On 18 September 2026 IPPI reported that bringing tumblers has become a habit on campus. The 2025 impact report records a reverse osmosis drinking-water system, provided with a partner company, which it says lowers dependence on packaged drinking water.

CAMPAIGNS IN FACULTIES

The Mathematics Education study programme runs a yearly campaign for National Waste Awareness Day that encourages tumblers and fewer plastic straws. The Eco-Initiator campaign of the 3R programme puts banners across campus, including at the Faculty of Medicine, and replaces flower boards at events and ceremonies with tree seedlings. At the Faculty of Food Security, Dean's circulars of 2025 encourage the 3R principles and personal tumblers in place of single-use bottles.

LESS PAPER

A Rector's circular of 2025 encourages digital learning and assessment through the SIDIA learning-management system, which reduces printed examination papers. UNESA also handles correspondence, attendance and academic records electronically.

MEASURES AGAINST SINGLE-USE ITEMS, 2025 AND 2026

DATE	MEASURE	WHERE
28 Jul 2025	Reusable shopping bags and less paper and plastic written into the environmental document	Ketintang campus
2025	Dean's circulars on the 3R principles and on personal tumblers in place of single-use bottles	Faculty of Food Security
2025	Rector's circular on digital learning and assessment through SIDIA	Whole university
1 Sep 2025	Waste Bank launched: students and staff separate plastic bottles and cups at collection points near the main building and canteen	Faculty of Education
4 Mar 2026	Coordination meeting discusses reusable drinking bottles and stronger campus sustainability measures	IPPI and all units
14 Apr 2026	Rector's Regulation 12/2026 sets eco-campus steps on waste reduction, sorting, composting and waste banks	Whole university
7 Aug 2026	Procedure asks canteens and food tenants to separate food waste, used cooking oil and packaging	Campus canteens
18 Sep 2026	Bringing tumblers reported as a campus habit	IPPI report

Students and communities turn waste into value

Faculties and students add their own work to the campus system: training residents, rescuing food, and turning offcuts, plastic and biomass into new products.

WASTE PROJECTS OF FACULTIES AND STUDENTS, 2025 AND 2026

DATE	ACTIVITY	WITH
2025	Students launch Beezpack, a reusable food wrap made from fabric scraps of a local tailor; 117 of the first 150 units sold in three months	UNESA students; local sewing business
5 Nov 2025	Science Education students win bronze medals at PKM AMLI 2025 for bioplastic from mangrove leaf litter and paper soap from banana peel; another team's cigarette-butt bioplastic reaches 95% biodegradability	Science Education study programme
Dec 2025	Community-service students in Warugunung village build a rocket-stove incinerator for biomass and used cooking oil, with about 42% thermal efficiency	KKNT students; Warugunung village
21 Dec 2025	Faculty of Food Security tests a milling machine that turns corn-plant waste into silage for animal feed	Bluluk village, Lamongan
27 and 30 Dec 2025	Culinary Education students cut hotel kitchen waste during internships: pastry offcuts into cheesecake, watermelon rind into pickles, banana peel into brownies	Surabaya hotels
4 Apr 2026	ENVYACTA community service forms a plastic waste bank and trains residents to make compost and eco-enzyme	Faculty of Languages and Arts; U.S. Embassy RELO; IIEF; Lidah Kulon, Surabaya
24 Apr 2026	UI GreenMetric team visits the Faculty of Food Security, where weeds become compost and livestock manure becomes fertiliser and fish feed	Faculty of Food Security
19 May 2026	A Graphic Design student designs a mascot for Bank Sampah Sumber Makmur, a community waste bank in Nganjuk that has run on the 3R principle since 2007	D4 Graphic Design; Nganjuk
May 2026	Sociology webinar on community waste banks as social capital	Capiz State University, the Philippines
15 and 23 Jun 2026	Faculty of Food Security plans a food-rescue ecosystem and black soldier fly maggot cultivation on campus	Garda Pangan Enterprise; Nusantara Maggot Farmers Association, East Java
21 Jun 2026	Make-up and fashion students present an ocean-themed gown made from discarded plastic and recycled cardboard	Surabaya Fashion Festival

REPORTING

Reporting UNESA's sustainability progress

UNESA publishes reports on its SDG work and campus sustainability, and shares its waste data in the UI GreenMetric ranking.

17
indicators in 14 themes in the 2025 impact report

10
SDGs that the report's results are aligned with, including SDG 12

1,675
of 1,800 points: UNESA's UI GreenMetric waste score for 2025

15th
among state legal-entity universities in UI GreenMetric 2026

THE 2025 IMPACT REPORT

The Rector signed UNESA's Social, Economic and Environmental Impact Report 2025 on 6 August 2026 and sent it to the Secretary General of the Ministry of Higher Education, Science and Technology the same day. The 86-page report covers 1 January to 31 December 2025 in three dimensions, social, economic and environmental, with 17 indicators in 14 themes. Its method follows the ministerial decree on higher-education impact indicators. UNESA collected the data from the units that hold it, removed double counting, validated it in three steps and reviewed the report with the units responsible. UNESA decided to integrate the indicators into its revised Strategic Plan, to form a team in charge of impact indicators and to develop a digital system for monitoring them.

UI GREENMETRIC

The UNESA GreenMetric portal collects evidence from every unit, and its waste indicator scored 1,675 of 1,800 points for 2025. On 15 September 2026 the UI GreenMetric rankings placed UNESA 15th among Indonesian state legal-entity universities and 28th of more than 2,100 universities nationally. On 18 September 2026 IPPI credited a green and smart campus strategy that includes waste sorting in study programmes and the habit of bringing tumblers.

UNESA'S SUSTAINABILITY AND SDG REPORTS

REPORT	DATE	WHAT IT COVERS
SDGs Report 2024	November 2024	101 pages, with a chapter for each of the 17 SDGs
Sustainability Report 2024	November 2024	22 pages on the campus: setting and infrastructure, energy and climate change, waste, water, transportation, and education and research
SDGs Report 2025	November 2025	30 pages, opened by the Rector, on how faculties, centres and student organisations advanced the 17 SDGs during 2025
Social, Economic and Environmental Impact Report 2025	Signed 6 August 2026	86 pages with 17 indicators in 14 themes; results aligned with SDGs 1, 4, 8, 9, 10, 11, 12, 13, 15 and 17, with 2025 figures on local spending, waste and recycling

SOURCES

The 35 documents behind this report

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REPORT TEAM

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WCU (WORLD CLASS UNIVERSITY) TEAM UNESA

01 Dr. Irena Yolanita Maureen, S.Pd., M.Sc.

02 Dini Aulia Cahya, S.Si., M.Biomed.

03 Elma Sakinatus Sajidah, S.Si., M.Si., Ph.D.

04 Aulia Putri Srie Wardani, S.Gz., M.Sc.

05 Ira Khairani Panjaitan, S.Psi., M.Ed.

06 Dr. Alfin Maulana, S.EI., M.SEI.

07 Muhammad Rizky Ramadhan, BBus., MITHM.

08 Eliza Farestiani, S.Si., M.Eng.

09 Mochammad Abdul Machfud, S.I.Kom., M.B.A.

10 Faris Abdi El Hakim, S.Kom., M.Tr.Kom.

11 Zerry Akbar Yudisetyo, S.H., LL.M.

12 Annisa Ridhatul Khatimah, S.IP., M.A.

13 I Gde Agung Sri Sidhimantra, S.Kom., M.Kom.

SDGS CENTER IT TEAM UNESA

01 Rudi, S.Kom., M.Pd.

02 Windy Chikita Cornia Putri, S.Kom., M.Kom.

03 Yoyok Prastyo, S.Kom., M.Kom.

04 Triyah Fatmawati, S.Kom.

05 Zulfia Lutfiani, S.Tr.S.I.B.

SDGs Center, Universitas Negeri Surabaya
sdgscenter.unesa.ac.id



About this report

UNESA's SDGs' Report on SDG 12, Responsible Consumption and Production, covering activities in 2025 and 2026. It is one of seventeen reports, one for each SDG. The full evidence pages, with every source, are at sdgscenter.unesa.ac.id.