

SDGs' REPORT 2026 · SDG 15

Life on Land

UNESA is protecting and restoring its land, teaching communities to farm well and sending its hazardous waste to a licensed processor.



Staff of the Faculty of Food Security prepare vegetable beds at the Smart Agriculture Techno Park, Kampus 3, Surabaya, 25 March 2026.

SDG 15 AT A GLANCE

Land cared for, taught about and protected

SDG 15 asks universities to protect, restore and sustainably use land ecosystems, to support the ecosystems they do not control, and to dispose of waste without harming the land. This report sets out what UNESA did in 2025 and 2026. It covers the rules that bind its land, its campus ecosystems, events and outreach, teaching and research, and its handling of water, plastic and hazardous waste.

HOW UNESA WORKS ON SDG 15

The Directorate of Smart Sustainability Campus (USSC) and the Eco Campus teams run campus environmental management, and the Directorate of Innovation, Ranking and Scientific Publication (IPPI) coordinates sustainability data. Faculties and study programmes lead the events and teaching: the Faculty of Food Security (FKP) on farming and animal science, Biology and Geography on conservation, Sociology on biopori, and the Directorate for the Prevention and Handling of Strategic Issues (PPIS) with its Crisis Mitigation Centre (SMCC) on hazardous waste and the mangrove festival.

This report is one of seventeen: UNESA publishes an SDGs' Report on each SDG, and each report links to the full evidence pages, with every source, at sdgscenter.unesa.ac.id.

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SDG 15 online: every evidence page, with its sources, under SDG metrics at sdgscenter.unesa.ac.id

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POLICY AND GOVERNANCE

Rules that protect the land UNESA holds

UNESA's Statute and its city environmental approvals tie every use of campus land to nature conservation. A Rector's Regulation of 2026 adds green open space to the eco-campus programme.

20%
of the land on each Surabaya campus is green space

46,650
square metres of green space at the Ketintang campus, approved on 28 July 2025

112,380
square metres of green space at the Lidah Wetan campus, approved on 27 February 2024

4
written rules from 2022 to 2026 govern the use of campus land

THE STATUTE

Government Regulation No. 37 of 2022, set on 20 October 2022, is UNESA's Statute. Article 92(3) says that the use of land within UNESA must take into account land-use planning, aesthetics, environmental sustainability and nature conservation. Article 26(4)(b) adds that UNESA uses its academic freedom to protect and maintain the natural and biological diversity of Indonesia. The Statute is public.

RECTOR'S REGULATION 12 OF 2026

Set on 14 April 2026 and published on the university's legal portal, the regulation on occupational health, safety and the environment has an eco-campus article. Article 9 lists green open space created through tree planting, campus gardens and green areas, and urban farming, next to water management, waste sorting, composting and a campus waste bank. It took effect on the day it was set.

CITY APPROVALS

The city's environmental approvals for the Lidah Wetan campus (27 February 2024) and the Ketintang campus (28 July 2025) oblige UNESA to provide green open space with shade trees, shrubs and ground cover under Surabaya City Regulation No. 7 of 2002. Lidah Wetan keeps a green-area ratio of 20% against a minimum of 10%. The Ketintang approval also requires UNESA to carry out its environmental management and monitoring plan, to report to the Surabaya Environment Agency every six months and not to use groundwater.

WHO IS RESPONSIBLE

The Rector holds the approvals. The Directorate of Smart Sustainability Campus (USSC) and the Eco Campus teams run the eco-campus measures.

THE POLICY BASIS

RULE	NUMBER	DATE SET	WHAT IT SETS FOR LAND
Government Regulation containing the UNESA Statute	37 of 2022	20 October 2022	Land use respects environmental sustainability and nature conservation (Art. 92(3))
Approval of the Lidah Wetan campus environmental evaluation	600.4.1/156/Kep/436.7.10/2024	27 February 2024	Green open space; green-area ratio 20%
Approval of the Ketintang campus environmental evaluation	500.16.7.2/10/J/SKKLH/436.7.15/2025	28 July 2025	Green open space; reports every six months
Rector's Regulation on Health, Safety and the Environment	12 of 2026	14 April 2026	Green open space and waste sorting in the eco-campus programme

CAMPUS LAND AND BIODIVERSITY

A campus planned around its plants and animals

UNESA records the plants and wild animals of its campuses before it builds, keeps a fifth of its land green and looks after a conservation pond.

20
plant species recorded at the Ketintang campus, none of them protected

2025
on 21 May the city's assessment commission asked for a fauna inventory and UNESA added it

2026
on 7 June the Biology Eco Campus team checked the campus bosem

2026
on 4 March IPPI set out a plan for a flora and fauna inventory

BIODIVERSITY IN PLANNING

The environmental evaluation of the Ketintang campus was applied for on 24 April 2025, reviewed on 21 May 2025 and approved on 28 July 2025. It lists 20 plant species, among them sawo kecik, angsana and trembesi, and the wild animals on the site: grasshoppers, skinks, sparrows and munias. Both lists were checked against the national protected-species regulation, and none is protected. When reviewers asked for a fauna inventory, UNESA added the fauna information to the document. The Lidah Wetan evaluation of 2024 used the same method.

THE CAMPUS BOSEM

On 7 June 2026, for World Environment Day, the Biology Study Programme's Eco Campus team and a lecturer of its Biodiversity Conservation division checked the bosem, a retention pond that serves as a conservation area and supports water management. They monitored its ecosystem and the plants and animals that use it as habitat, tended the urban farming area and composted organic waste.

PLANTING AND TENDING

For World Environment Day in June 2025 the Smart Eco-Campus Directorate and the Magetan campus held a talk show with two environment agencies and planted a Tabebuya tree. In January 2026 the Aquaculture Study Programme planted portulaca and marigold around the Faculty of Food Security; marigold controls pests naturally and attracts bees and butterflies. On 6 February 2026 Animal Bioscience students and lecturers re-potted, fertilised and watered the plants along the faculty's classroom corridor.

A WIDER PROGRAMME

UNESA's 2025 impact report counts 14 environmental rehabilitation and restoration programmes for 2025, five of them tree planting and reforestation. It also names a campus forest used for learning and research, a mini zoo, and 500 kilograms of compost a month, made from organic waste, to keep the green areas supplied.



Staff and guests plant a Tabebuya tree at UNESA's Magetan campus (Kampus 5) for World Environment Day, June 2025.

EVENTS FOR LAND

Mangroves, trees and rainwater: students at work

Students and units ran land-care events in Surabaya, Sidoarjo, Tuban and Magetan in 2025 and 2026.

100
mangrove trees planted at Wonorejo on 26 April 2026

65
participants in Eco Fun Mangrove Day, with 4 volunteers from South Korea

3
biopori events in November 2025 with schools and a campus garden

11
mangrove snail species from 4 families identified in July 2026

MANGROVES

On 26 April 2026 the Geography Study Club planted 100 mangrove trees at the Wonorejo Mangrove Ecotourism Area in Surabaya, with volunteers from Universitas Airlangga and Universitas Trunojoyo Madura. On 25 July 2026 an Aquaculture and Biology Education student team presented its study of mangrove snails at the Kebun Raya Mangrove, where it identified 11 species. On 29 July 2026 the Crisis Mitigation Centre took a student delegation to the 10th East Java Mangrove Festival in Tuban, and the PPIS Directorate received the Governor's certificate of appreciation.

RAINWATER AND SOIL

Sociology students and the Yayasan Menabung Air foundation dug biopori holes, which return rainwater to the soil, in the FISIPOL campus garden on 17 November 2025. On 20 November they showed pupils of SDN 1 Karah how to drill holes about 40 cm deep in the school yard, and on 25 November they taught class X-1 of SMAN 22 Surabaya with a presentation, a demonstration and hands-on practice.

TREES AND FLOODS

On 11 July 2026 Geography students took tree planting and land education to Kedungbanteng Village, Sidoarjo. They talked with residents door to door about drainage and the role of vegetation in absorbing water, then planted trees with the village youth organisation.

EVENTS IN 2025 AND 2026

DATE	ACTIVITY	PLACE	UNESA UNIT
June 2025	Tabebuya tree planting for World Environment Day	Magetan campus	Smart Eco-Campus Directorate, Kampus 5
17 Nov 2025	Biopori holes in the campus garden	FISIPOL, Surabaya	Sociology Study Programme
20 Nov 2025	Biopori holes with pupils	SDN 1 Karah, Surabaya	Sociology Study Programme
25 Nov 2025	Biopori session for class X-1	SMAN 22 Surabaya	Sociology Study Programme
26 Apr 2026	Eco Fun Mangrove Day, 100 trees	Wonorejo, Surabaya	Geography Study Club
7 June 2026	Bosem check and urban farming action	UNESA campus	Biology Eco Campus team
11 July 2026	Tree planting and flood-risk education	Kedungbanteng, Sidoarjo	Geography students
25 July 2026	Mangrove snail study at Festival Riset dan Inovasi	Kebun Raya Mangrove, Surabaya	Faculty of Food Security
29 July 2026	10th East Java Mangrove Festival	Pantai Panduri, Tuban	PPIS Directorate and SMCC

TEACHING COMMUNITIES

Helping farmers, schools and households use land well

The Faculty of Food Security takes its Jaran Kepang programme, "turn yards into food security", to farmers, schools and city neighbourhoods, and other lecturers join it.

153
urban villages of Surabaya received hydroponic lettuce and eggplant seed on 14 July 2026

4
areas reached: Lamongan, Madiun, Malang and Surabaya

2
Surabaya schools advised on turning school land into gardens

FARMERS

On 21 December 2025 the faculty's vice deans met school heads of the SENTRA network in a corn-growing area of Bluluk Village, Lamongan, on organic fertiliser made by the schools. In August 2026 it held a workshop and field extension on a soybean demonstration plot in Tebluru Village, Solokuro, with the mosque board, farmer groups and the village government. On 23 September 2026 lecturers of the Management Study Programme at Kampus 5 taught a durian farmer group in Dolopo, Madiun, to make organic fertiliser.

CITY HOUSEHOLDS

On 12 May 2026 the faculty and the YBM PLN foundation mentored residents of Menanggal, Surabaya, in growing gambas, papaya and cassava in small media, polybags and large pots, so that no patch of land is wasted. On 23 June 2026 a vice dean taught women organisers of an urban-farming neighbourhood in Malang plant care and natural pest protection. On 14 July 2026 the faculty gave representatives of all 153 urban villages of Surabaya hydroponic lettuce and eggplant seed.

SCHOOLS

On 22 April 2026 the faculty and SMPN 29 Surabaya agreed that the school would grow food crops, small livestock and aquatic species in its yard. On 7 July 2026 the faculty advised teachers of SMPN 21 Surabaya on making dry, rocky school land productive with turned soil, hydroponic racks and home-made catfish feed.

LAND AND TOURISM

On 19 June 2026 the faculty joined the opening of a food-security education tourism site in Menanggal, built on urban farming and fish ponds. On 17 July 2026 applied Public Administration lecturers worked with Plintahan village, Pasuruan, on sustainable tourism governance.

OUTREACH IN 2025 AND 2026

DATE	COMMUNITY	PLACE	WHAT UNESA TAUGHT OR ADVISED
21 Dec 2025	School heads of the SENTRA network	Lamongan	Organic fertiliser
22 Apr 2026	SMPN 29 Surabaya	Surabaya	Gardening, livestock and fish in the yard
12 May 2026	Residents of Menanggal	Surabaya	Urban farming on small plots
7 Jul 2026	Teachers of SMPN 21 Surabaya	Surabaya	Hydroponic racks and catfish feed
14 Jul 2026	PKK of 153 urban villages	Surabaya	Hydroponic lettuce and eggplant seed
Aug 2026	Farmers of Tebluru Village	Lamongan	Soybean demonstration plot
23 Sep 2026	Lestari durian farmer group	Madiun	Making organic fertiliser

TEACHING AND RESEARCH

Learning about land ecosystems and what lives on them

Students measure trees, lecturers train plants to clean polluted soil and the Faculty of Food Security works to conserve local livestock breeds and plant diversity.

14

environmental rehabilitation and restoration programmes counted for 2025

500 kg

of compost a month from campus organic waste

1

agreement with Universitas Airlangga, signed on 12 February 2026, for joint research on plant biodiversity

MEASURING CARBON IN TREES

On 21 November 2025 students of the Master's in Biology Education ran a field practicum in the Applied Ecology course. They measured trunk diameter, tree height and vegetation type to calculate how much carbon dioxide the trees had stored.

PLANTS THAT CLEAN SOIL

On 7 March 2026 the Biotechnology Study Programme held a Biotech Research Talk on phytoremediation, "Training Nature to Fight Pollution". A specialist explained how plants can be bred or engineered to absorb, break down or stabilise pollutants in soil, water and air, including in rehabilitating former mining land.

LOCAL LIVESTOCK BREEDS

On 19 February 2026 the Animal Bioscience programme joined East Java's Livestock Service at a regional forum on the province's 2027 work plan, where the service called for protecting and rebuilding local breeds such as PO, Madura and Bali cattle and Mojosari ducks. On 5 August 2026 an Animal Bioscience team visited the national artificial insemination centre at Singosari, Malang, to strengthen research on animal reproduction and native livestock genetic resources.

PLANT DIVERSITY AND THE PUBLIC

On 12 February 2026 the Biotechnology programme signed an agreement with the Biomolecular Engineering Research Centre of Universitas Airlangga for joint work on plant biodiversity, seed quality and pest resistance. On 8 February 2026 Animal Bioscience students ran a public education stand at Car Free Day on Jalan Raya Darmo, Surabaya, with animal health demonstrations.



Animal Bioscience students clean the animal pens of the Faculty of Food Security's open laboratory, Surabaya, 6 February 2026.

WATER AND PLASTIC

Standards for what leaves the campus

City technical approvals set quality limits for the water UNESA discharges, and a binding management plan sets how it cuts plastic.

2
technical approvals set wastewater quality limits, of 16 November 2023 and 30 December 2024

28
limits apply at the Ketintang campus

1,033
cubic metres a day: the approved flow at the Ketintang campus

15th
among Indonesia's legal-entity state universities in the UI GreenMetric 2026

WATER QUALITY LIMITS

Technical Approval No. 600.4.5.2/1020/436.7.10/2023, issued to the Lidah Wetan campus on 16 November 2023, and No. 600.4.5.2/987/436.7.10/2024, issued to the Ketintang campus on 30 December 2024, set maximum levels for wastewater that is reused on green space. Each is bound to the campus's environmental approval. Under the monitoring plans UNESA samples its domestic wastewater every month, compares the results with the standard and reports to the Surabaya Environment Agency. The 28 Ketintang limits include metals such as lead (0.5 mg/L) and mercury (0.005 mg/L), with monitoring wells upstream and downstream of the three garden points where the water is reused. At Ketintang UNESA must also keep a procedure for wastewater management and pollution emergencies, clean canteen grease traps every day and use a licensed party to haul sludge.

CUTTING PLASTIC

The Ketintang management plan, approved on 28 July 2025, obliges UNESA to reduce paper and plastic, to provide reusable shopping bags in line with Surabaya Mayor's Regulation No. 16 of 2022, to provide separate organic and inorganic bins and to report on waste every semester. Rector's Regulation 12 of 2026 adds waste sorting, recycling, composting and a campus waste bank. UNESA's reusable-bottle movement is backed by drinking-water dispensers in campus buildings.

WASTE BANKS AND ZERO WASTE

On 1 September 2025 the Faculty of Education launched a waste bank run by its student executive board, with colour-coded bins where students and staff sort plastic bottles and cups. On 4 March 2026 IPPI set out next steps: free drinking water in faculties and using plastic bottle waste to harden roads. On 9 May 2026 UNESA declared Unesa Go Zero Waste, a commitment to manage its waste fully on campus.

SELECTED WASTEWATER QUALITY LIMITS

PARAMETER	UNIT	LIDAH WETAN (APPROVAL OF 16 NOV 2023)	KETINTANG (APPROVAL OF 30 DEC 2024)
pH	-	6 to 9	6 to 9
BOD	mg/L	30	12
COD	mg/L	100	80
Suspended solids	mg/L	30	400
Oil and fat	mg/L	5	10
Total coliform	per 100 ml	3,000	10,000

HAZARDOUS WASTE

From the laboratory to a licensed processor

A written procedure sets how every unit records, stores and hands over hazardous waste. In 2025 and 2026 the Faculty of Medicine and the university clinic sent 2,075 kilograms to a licensed processor, every load with a manifest.

2,075
kilograms sent to a licensed processor in 2025 and 2026 (950 and 1,125)

23
hazardous waste types with their own procedure in the directive of 13 November 2023

1
own procedure of UNESA, SOP 01/11/P1/UN38.I/2025, set on 7 July 2025

2
processor agreements signed: Faculty of Medicine and the university clinic

HOW HAZARDOUS WASTE LEAVES UNESA

1. Identify and record
Each unit records the type, quantity and storage place of its hazardous waste.

2. Pack and store
Waste goes into leak-proof, labelled containers in a marked store, never mixed with ordinary waste.

3. Hand over
Only a licensed carrier or processor may take it, with a waste manifest.

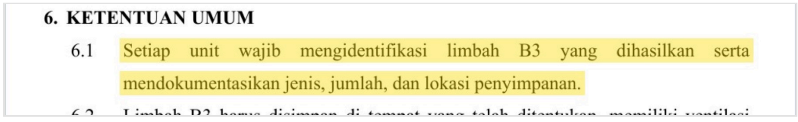
4. Certify and report
The processor issues a treatment certificate, and UNESA reports storage to the city at least every six months.

WHAT THE RULES COVER

The Surabaya Environment Agency's technical directive of 13 November 2023 lists 23 hazardous waste types for the Lidah Wetan campus: infectious clinical waste, expired laboratory chemicals and pharmaceuticals, contaminated laboratory equipment, used oil, toner and ink, sharps, batteries, fluorescent and LED lamps and electronic waste. Sharps go into a safety box and each procedure sets how the waste is packed, labelled, stored and handed over. A directive of 12 March 2025 covers the Ketintang campus.

LOADS IN 2025 AND 2026

On 29 October 2025 the Faculty of Medicine sent 880 kilograms of expired chemicals and 70 kilograms of infectious clinical waste under two manifests, and the processor certified their treatment on 31 October 2025. Between 12 June and 15 August 2026 the university clinic sent five loads of infectious clinical waste, 1,125 kilograms in all, each under its own manifest. The Faculty of Medicine's agreement runs from 1 February 2026 to 31 January 2027 and the clinic's, signed on 28 July 2026, runs to 27 July 2027.



6. KETENTUAN UMUM

6.1 Setiap unit wajib mengidentifikasi limbah B3 yang dihasilkan serta mendokumentasikan jenis, jumlah, dan lokasi penyimpanan.

6.2 Limbah B3 harus disimpan di tempat yang telah ditentukan, memiliki ventilasi

IN THE POLICY

Procedure No. 01/11/P1/UN38.I/2025, set on 7 July 2025, point 6.1: every unit identifies and records its hazardous waste. Highlight added.

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The 36 documents behind this report

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About this report

UNESA's SDGs' Report on SDG 15, Life on Land, 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.