

SDG 6 PROGRESS REPORT

Clean Water and Sanitation

UNESA is measuring and protecting the water on its campuses, reusing it and teaching villages and schools to save it.



UNESA Sociology students and pupils of SMAN 22 Surabaya dig a biopori hole to return rainwater to the ground, 25 November 2025.

SDG 6 AT A GLANCE

A campus that tracks its water and teaches others to save it

SDG 6 asks universities to measure the water they use, keep their wastewater from polluting, reuse water where they can, and help their communities look after water. This report sets out what UNESA did on each of these in 2025 and 2026. It also covers the research and student work on water that sits beside them.

HOW UNESA WORKS ON SDG 6

UNESA's Directorate of Assets keeps the water-account records for the Ketintang and Lidah Wetan campuses. The Directorate of Innovation, Ranking and Scientific Publication coordinates the campus data that goes into the UI GreenMetric ranking, and the Eco Campus teams of the faculties run the water campaigns. The research and community service institute (LPPM), the Faculty of Food Security, the Faculty of Social and Political Sciences and the science programmes lead the work with villages, schools, rivers and laboratories.

This report is one of seventeen: UNESA reports its progress on each SDG separately, and each report links to the full evidence pages, with every source, at sdgscenter.unesa.ac.id.

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SDG 6 online: every evidence page, with its sources, under SDG metrics at sdgscenter.unesa.ac.id

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POLICY AND GOVERNANCE

Water management is written into UNESA's rules

Rector's Regulation Number 12 of 2026 makes water management part of the Eco Campus programme, and the city's approvals for both main campuses set the conditions for how UNESA takes, uses and treats water.

No. 12
Rector's Regulation Number 12 of 2026, set on 14 April 2026, with rainwater storage, wastewater treatment and a water-saving campaign

2
main campuses with city environmental approvals that bar the use of groundwater

9
wastewater treatment plant designs approved by the city for the two campuses

THE RECTOR'S REGULATION

Rector's Regulation Number 12 of 2026 on Occupational Safety, Health and the Environment was set on 14 April 2026 and applies from that date. In its chapter on integration with the Eco Campus programme, Article 9(4) lists water management as rainwater storage systems, wastewater treatment and a water-saving campaign. Article 9(7) adds education of students and lecturers and environmental campaigns, and Article 9(1) has the university form an Eco Campus team. The regulation is published on UNESA's legal documentation site (JDIH).

APPROVALS FOR THE TWO MAIN CAMPUSES

The Surabaya City Environment Office approved the environmental evaluation document of the Lidah Wetan campus on 27 February 2024, and the Ketintang document on 28 July 2025. Both state that the campus takes its clean water from the city water company (PDAM) and oblige UNESA not to use groundwater. They also set out how each campus handles wastewater and drainage, and commit UNESA to use treated water, rainwater and leftover ablution water to water plants.

WASTEWATER AND HAZARDOUS WASTE

The city approved the technical design of two wastewater treatment plants for Lidah Wetan on 16 November 2023, one for Ketintang on 30 December 2024 and six more for Lidah Wetan on 15 September 2026. On 13 November 2023 it issued a directive for UNESA's hazardous-waste store, with an emergency procedure that keeps spills out of drains, soil and water.

INSTRUMENTS THAT GOVERN WATER AT UNESA

DATE SET	INSTRUMENT	WHAT IT SETS	CAMPUS
14 Apr 2026	Rector's Regulation No. 12 of 2026	Rainwater storage, wastewater treatment and a water-saving campaign (Art. 9(4)); education and campaigns (Art. 9(7))	Whole university
27 Feb 2024	Environmental evaluation approval No. 600.4.1/156/Kep/436.7.10/2024	Mains water and no groundwater; septic tanks, grease traps, separate drains; reuse of treated water and rainwater	Lidah Wetan
28 Jul 2025	Environmental feasibility decision No. 500.16.7.2/10/J/SKKLH/436.7.15/2025	Mains water and no groundwater; septic tanks; reuse of treated water for watering gardens	Ketintang
15 Sep 2026	Technical approvals Nos. 600.4.5.2/1466 to 1471/436.7.10/2026	Designs of six further plants, with monthly testing of treated water at an accredited laboratory	Lidah Wetan

MEASURING WATER USE

Meter by meter: how UNESA records the mains water it uses

The Directorate of Assets records the water used at the Ketintang and Lidah Wetan campuses account by account. Mains water is UNESA's only source on both campuses.

26
PDAM account entries in the Directorate of Assets' 2025 recap, each with monthly cubic metres and bills

2
campuses supplied by the city water company, with approvals that bar groundwater use

1,579
cubic metres a day planned in the Lidah Wetan approval of 27 February 2024

1,494
cubic metres a day planned in the Ketintang approval of 28 July 2025

A RECORD FOR EVERY BUILDING

The Directorate of Assets keeps a 2025 recap of the water accounts it pays, titled Recap of Water Account Payments. It lists each PDAM customer number with the building it serves and, for every month, the cubic metres used and the bill in rupiah. The accounts cover faculty, office, laboratory and guest-house buildings: at Ketintang, for example, the Faculty of Mathematics and Natural Sciences, the Faculty of Engineering, the central office and two guest houses; at Lidah Wetan the main campus account, the postgraduate building and the Rectorate.

MAINS WATER ONLY

The city's approvals of UNESA's environmental documents state that clean water on both main campuses comes from PDAM, and they oblige UNESA not to use groundwater. The Lidah Wetan approval of 27 February 2024 plans for 1,579.24 cubic metres a day, and the Ketintang approval of 28 July 2025 for 1,493.88 cubic metres a day. These are planning volumes; the account recap records the water actually used.

MORE PRECISE RECORDS

Before the data deadline of 13 March 2026, the Directorate of Innovation, Ranking and Scientific Publication met the units responsible for campus sustainability data and set out to add flow meters on water storage tanks, so that water use is recorded more accurately. It then coordinated every unit to submit UNESA's 2026 UI GreenMetric data, which covers water as well as energy, waste and transport.

DRINKING WATER ON CAMPUS

UNESA provides free drinking-water dispensers across its campus buildings and campaigns for students, lecturers and staff to bring personal tumblers and refill them, to cut single-use plastic bottles. It reported this to UI GreenMetric in 2026, with a photograph of students using tumblers at a dispenser. In March 2026 the university also set out to extend free drinking water to the faculties, together with a reusable-bottle movement.

WHAT UNESA'S RECORDS SHOW ABOUT WATER

WHEN	RECORD	WHAT IT SHOWS
27 Feb 2024	Lidah Wetan environmental approval	PDAM supply planned at 1,579.24 m³ a day; groundwater not to be used
28 Jul 2025	Ketintang environmental approval	PDAM demand of 1,493.88 m³ a day, checked against PDAM bills; groundwater not to be used
2025	Directorate of Assets water recap	26 PDAM account entries; monthly cubic metres and bills for buildings on the Ketintang and Lidah Wetan campuses
Mar 2026	Coordination meeting on campus sustainability data; data deadline 13 March	Flow meters to be added on storage tanks; free drinking water for the faculties; every unit's 2026 UI GreenMetric data submitted, with water included

WASTEWATER AND WATER QUALITY

Keeping wastewater out of the city's drains and rivers

Black water is held in septic tanks that licensed operators and the city service empty, grease traps are cleaned, and the city has approved wastewater treatment plant designs for both main campuses.

2
city desludging services at Lidah Wetan in 2026, on 30 June and 31 August

2 to 3
years between septic tank emptyings at Ketintang, by third-party operators

9
wastewater treatment plant designs approved by the city: eight at Lidah Wetan, one at Ketintang

6 Jan
2026 hazardous-waste agreement signed by the Faculty of Medicine with a licensed processor

SEPTIC TANKS AND DESLUDGING

Every building sends its black water to a septic tank. The Ketintang environmental document, approved on 28 July 2025, records that third parties empty the tanks every two to three years and that the tanks are in good working order. The Surabaya Water Resources and Roads Office issued receipts for desludging domestic wastewater at Lidah Wetan on 30 June and 31 August 2026, one truck trip each, to the city's sludge treatment plant 19.4 km away.

GREASE TRAPS AND DRAINS

Photographs dated 30 June 2026 show a tanker emptying a multi-chamber grease trap at Lidah Wetan, and the Lidah Wetan approval commits UNESA to pass canteen kitchen water through grease traps cleaned every day. Both approvals oblige UNESA to keep rainwater channels apart from wastewater channels and to build watertight wastewater channels. The Lidah Wetan approval adds sampling of groundwater at monitoring wells upstream and downstream, with a report to the city every three months.

TREATMENT PLANT DESIGNS

On 16 November 2023 the city approved the technical design of two plants for Lidah Wetan, one of 1,000 m³ for the main buildings and one of 175.16 m³ for Graha UNESA and the Lab School. Each design runs from grease trap, bar screen and equalising tank through aeration, settling and chlorination tanks to an effluent tank. The city approved a design for Ketintang on 30 December 2024 and six more for Lidah Wetan on 15 September 2026, with monthly testing of treated water at an accredited laboratory.

HAZARDOUS LIQUIDS AND SPILLS

On 6 January 2026 the Faculty of Medicine signed an agreement with a licensed processor to collect hazardous waste, including expired chemicals, contaminated laboratory equipment and sludge from wastewater plants. UNESA's hazardous-waste store at Lidah Wetan has a written emergency procedure, approved on 13 November 2023, that tells staff to stop spills reaching drains, soil and water bodies.

WASTEWATER MILESTONES, 2023 TO 2026

DATE	WHAT HAPPENED	CAMPUS
16 Nov 2023	City approves the design of two wastewater treatment plants	Lidah Wetan
30 Dec 2024	City approves the design of a wastewater treatment plant	Ketintang
6 Jan 2026	Faculty of Medicine signs a hazardous-waste agreement with a licensed processor	Faculty of Medicine
30 Jun 2026	City desludging service empties domestic wastewater; a tanker empties the grease traps	Lidah Wetan
31 Aug 2026	Second desludging service by the city	Lidah Wetan
15 Sep 2026	City approves the designs of six further plants	Lidah Wetan

WATER REUSE

Using water twice: from air-conditioner condensate to fish ponds

UNESA's rules and approvals provide for reusing treated water, rainwater and ablution water, and its Faculty of Food Security already reuses water in its hydroponic and aquaponic systems.

1,033 m³
a day of treated water the Ketintang approval of 28 July 2025 allows for watering gardens

2
faculty systems that reuse water: air-conditioner condensate for hydroponics, and aquaponics

3
kinds of water the approvals commit UNESA to reuse: treated wastewater, rainwater and ablution water

REUSE IN THE RULES

Rector's Regulation Number 12 of 2026 puts rainwater storage and wastewater treatment into UNESA's water management. In March 2026 the Directorate of Innovation, Ranking and Scientific Publication also set out to strengthen the water recycling programme, especially around the mosque.

REUSE IN THE APPROVALS

The Lidah Wetan approval of 27 February 2024 states that treated wastewater is used to water green space, set at 938.64 m³ a day for the first plant and 166.83 m³ a day for the second, with campus parks named as the points of use in the technical approval of 16 November 2023. The Ketintang approval of 28 July 2025 allows up to 1,033.23 m³ a day for watering gardens at three points, each with an upstream and a downstream monitoring well. Both commit UNESA to use rainwater through biopori holes and leftover ablution water to water plants.

REUSE IN THE FACULTIES

On 24 April 2026 UNESA's UI GreenMetric team visited the Faculty of Food Security and saw air-conditioner condensate treated and used for hydroponic plants. In February 2026 the faculty's Aquaculture programme ran an aquaponics system in which plant roots filter the water before it returns to the fish pond, a closed loop the faculty describes as saving groundwater.

RAINWATER BACK INTO THE GROUND

On 17 November 2025 the Faculty of Social and Political Sciences and the Menabung Air (Saving Water) Foundation dug biopori holes in the faculty garden and filled them with organic waste, so that rainwater soaks back into the ground. The faculty's Vice-Dean for Academic Affairs told participants that water belongs to future generations, and that saving water now passes it on to them.

WATER REUSE AT UNESA, 2023 TO 2026

DATE	WATER	REUSED FOR	WHERE
24 Apr 2026	Air-conditioner condensate	Growing medium for hydroponic plants	Faculty of Food Security
Feb 2026	Aquaponics water	Filtered by plant roots, then returned to the fish pond	Faculty of Food Security, Aquaculture
17 Nov 2025	Rainwater	Biopori holes filled with organic waste, so rain soaks into the ground	Faculty of Social and Political Sciences
28 Oct 2025	Closed-circulation fish-pond water	Feeds hydroponic vegetables above the pond	Rejotengah village, Lamongan
Mar 2026	Water recycled around the mosque	Water recycling programme set out to be strengthened	Directorate of Innovation, Ranking and Scientific Publication
2023 to 2026	Treated wastewater, rainwater and ablution water	Watering campus green space, as approved by the city	Lidah Wetan and Ketintang

TEACHING WATER CARE

Villages and schools learn to save, reuse and protect water

UNESA's lecturers and students teach water care outside the campus: to villages short of water, to residents whose wastewater needs treating, and to pupils who learn to return rainwater to the ground.

6

community and school water programmes between October 2025 and July 2026

3

villages trained: Rejotengah in Lamongan, Sukoruo in Trenggalek and Kedungbanteng in Sidoarjo

3

schools taught: SDN 1 Karah and SMAN 22 in Surabaya, and SMAN 3 Tuban

VILLAGES

On 28 October 2025 lecturers of UNESA and Universitas Islam Lamongan, funded by the Ministry of Higher Education, Science and Technology, trained residents and young people of Rejotengah in Deket, Lamongan, a village short of clean water in the dry season. After a group discussion on the shortage they showed how to build round fish ponds with closed water circulation, whose water feeds hydroponic vegetables, and advised on household wastewater. Several residents began building ponds in their own yards.

In 2025 physics lecturers trained people of Sukoruo, Trenggalek, to make eco-enzyme that lowers the pollutant load of wastewater from home tempeh industries. On 11 July 2026 Geography students went door to door in Kedungbanteng, Sidoarjo, to map flood-prone spots, explain good drainage and the role of vegetation in absorbing water, and plant trees with the village youth organisation.

SCHOOLS

On 20 November 2025 five Sociology students, in their course on community empowerment models, worked with the Menabung Air Foundation at SDN 1 Karah Surabaya, a school in a dense neighbourhood near a market where rain does not soak away. They explained biopori and guided pupils in digging holes about 10 to 15 cm wide and 40 cm deep and filling them with dry leaves.

On 25 November 2025 they gave class X-1 of SMAN 22 Surabaya the session Menabung Air untuk Bumi (Saving Water for the Earth), with a presentation, practice in the school yard and discussion. On 8 July 2026 the Faculty of Food Security trained the principal, teachers and pupils of SMAN 3 Tuban in aquaponics and bucket fish farming, designed for water efficiency.

A LASTING PARTNERSHIP

On 17 November 2025 the Faculty of Social and Political Sciences signed a memorandum of agreement with the Menabung Air Foundation, opening internships, research and student involvement in water-conservation projects.

WATER LESSONS BEYOND THE CAMPUS

DATE	ACTIVITY	WHERE	WHO TOOK PART
28 Oct 2025	Water-saving fish ponds with closed circulation; household wastewater	Rejotengah, Lamongan	Residents and village youth; UNESA and UNISLA lecturers
2025	Eco-enzyme to treat tempeh wastewater	Sukoruo, Trenggalek	Residents; Physics lecturers
20 and 25 Nov 2025	Biopori infiltration holes, and the Saving Water for the Earth session	SDN 1 Karah and SMAN 22, Surabaya	Pupils; Sociology students
8 Jul 2026	Aquaponics and bucket fish farming	SMAN 3 Tuban	Principal, teachers and pupils; Faculty of Food Security
11 Jul 2026	Flood mitigation, drainage and greening	Kedungbanteng, Sidoarjo	Residents; Geography students

RIVERS, SPRINGS AND PARTNERS

Protecting the Brantas and other water sources with government and universities

UNESA works with the East Java environment office, the river authorities, the water companies and other state universities to protect the sources that supply the region's water.

50
cypress trees planted around the main spring of the Brantas River, 26 July 2025

5
state universities in the Brantas planting: UNESA and four others

93%
of Surabaya's drinking water comes from the Brantas, the water company's director of operations told the planting

584
pieces of rubbish cleared from the Bolodewo River by 20 students, 21 July 2026

THE BRANTAS SPRING

On 26 July 2025 a team of seven UNESA lecturers from the research and community service institute (LPPM) joined the programme Akar Brantas, Nafas Jawa Timur (Brantas roots, the breath of East Java) at the main spring of the Brantas River in Batu. With Universitas Airlangga, ITS, Universitas Brawijaya and Universitas Negeri Malang, the Surabaya water company, eight East Java drinking-water companies, the river basin operator Perum Jasa Tirta I and the East Java Provincial Environment Office, they planted 50 cypress trees. The partners reported that the spring's flow has fallen as recharge forest was lost. The planting is meant to hold water in the rainy season and provide reserves in the dry season.

WORKING WITH RIVER AUTHORITIES

UNESA reported on 5 February 2026 that its Geography Education lecturers, planning a joint study with Universiti Sains Malaysia of the flood-prone Bengawan Jero basin in Lamongan, had visited the Kuro water gate. Officers of the Bengawan Solo river basin authority and of the Lamongan water resources unit received them. The study aims to use remote sensing to monitor flooding of homes and farmland when surface water rises.

CLEAN WATER AND CLEAN RIVERS

On 28 December 2025 UNESA's Crisis Center Mitigation subdirectorate delivered aid and installed water purifiers in Keurombok village, Kuta Blang, so that residents have better-quality water for daily use. On 21 July 2026 twenty members of the Sociology student association cleared 584 pieces of rubbish along the Bolodewo River in Mojokerto and put up a sign asking visitors and residents to keep the river clean.



UNESA Geography lecturers at the Kuro water gate in Lamongan on a first field visit for a study of water governance in Bengawan Jero, reported on 5 February 2026.

RESEARCH AND INNOVATION

From dye-cleaning materials to a solar-powered toilet

UNESA's lecturers and students develop materials, plants and sanitation systems that clean water, and train in the laboratories and pipework that keep it safe.

97%

of a textile dye broken down by a light-activated material made with papaya-leaf extract, reported 4 May 2026

1st

place in the Social and Population category at Surabaya's Inovboyo 2025 for the EMOSS sanitation system, 17 December 2025

1

booklet guide to water-quality testing written by Biology students in a 2026 internship at the Sidoarjo environment laboratory

CLEANING DYES FROM WATER

Reported on 4 May 2026, UNESA's Master's in Physics programme developed a light-activated (photocatalytic) material that degrades synthetic textile dyes in water, including Rhodamine B, Congo Red and Methylene Blue. With papaya-leaf extract as a natural reducing agent it broke down up to 97.12 percent of the dye. The work was funded by Indonesia's Directorate of Research, Technology and Community Service, involved an undergraduate Physics student and was published in a Q2 international journal. UNESA named it a contribution to SDG 6.

PLANTS THAT CLEAN WATER

On 7 March 2026 the Biotechnology programme held an online Biotech Research Talk on phytoremediation, which uses plants to absorb, break down or stabilise pollutants in soil, water and air, including in the treatment of domestic wastewater.

SANITATION THAT TREATS WASTE ON SITE

On 17 December 2025 UNESA won Best Exhibition Stand and first place in the Social and Population category at Surabaya's Inovboyo 2025 innovation awards for EMOSS (Eco Smart Sanitation). It is a portable toilet of resin and fibre with a solar-powered moving bed biofilm reactor that treats waste on site, designed to be lighter and easier to install and move than conventional sanitation.

WATER LEARNING AND RESEARCH WITH PARTNERS

WHEN	ACTIVITY	WITH	PROGRAMME
Sep and Nov 2025	Study visits by Singapore polytechnic students to two water treatment plants, covered by a UNESA intern	Surabaya water company, Perumda Air Minum Surya Sembada	Communication
17 Dec 2025	EMOSS sanitation system wins first place, Social and Population category	Inovboyo 2025, Surabaya	Innovation directorate
Feb to May 2026	Internship testing water and wastewater, ending in a booklet guide to water-quality testing	Environmental laboratory of the Sidoarjo environment office	Biology
2 Mar 2026	Vinilon Goes to Campus: HDPE pipe installation	PT Vinilon Group	Building Engineering Education
7 Mar 2026	Biotech Research Talk on phytoremediation	Online	Biotechnology

SOURCES

The 24 documents behind this report

UNESA'S PLAIN REPORT ON SDG 6

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About this report

UNESA's progress report on SDG 6, Clean Water and Sanitation, 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.