

UNIVERSITY OF CYBERJAYA

SDG IMPACT REPORT 2025

SDG 13: Climate Action

13 CLIMATE ACTION

SDG 13 · CLIMATE ACTION

Our Commitment to Climate Action

TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

Climate change is already a health issue in Malaysia, from heavier floods to hotter days and the spread of disease. As a university built on health sciences, the University of Cyberjaya has a duty to cut its own emissions, and to help the communities around it understand and prepare for a changing climate.

Our commitment to SDG 13 is anchored in our Zero by 2050 Climate Strategy, a commitment to a net-zero campus. The Green Campus Action Plan and our Emission Reduction Roadmap set out how we will get there, from rooftop solar and LED lighting to an electric fleet. Beyond campus, we teach climate literacy in schools and the community, and work with river NGOs and local councils on defences against floods.

This report sets out our goals, the progress we made against them in 2025, and the people and projects behind it.

Our goals

01 RESEARCH ON CLIMATE AND HEALTH
Study how climate change affects health, and how communities can prepare. 13.1

02 TRACK OUR LOW-CARBON ENERGY
Measure the energy we use and the share that comes from low-carbon sources. 13.2.1 · 13.2.2

03 TEACH CLIMATE LITERACY
Run climate education programmes for students, schools and the public. 13.3.1

04 PLAN OPENLY
Publish and share our climate and emission-reduction plans. 13.3.2

05 PREPARE FOR CLIMATE DISASTERS
Plan with local councils and agencies for floods and other climate-related emergencies. 13.3.3

06 INFORM AND SUPPORT GOVERNMENT
Share our data and expertise with local and national policy makers. 13.3.4

07 WORK WITH ENVIRONMENTAL NGOS
Partner with NGOs on climate education and nature-based solutions. 13.3.5

08 REACH NET ZERO BY 2050
Become a carbon-neutral campus by 2050, with interim targets along the way. 13.4.1 · 13.4.2

KEY FACTS · 2025

2025 at a Glance

In 2025 we cut our grid electricity by nearly a fifth, began electrifying our fleet and taught climate literacy across campus and in the community.

2050
our target year for a net-zero campus

377 t
of CO_2 avoided by solar power and LED lighting

44%
cut in vehicle fleet emissions in 2025

12.5%
of campus electricity from on-site solar

160
students, staff and school guests at our Climate Fresk workshop

81%
could explain climate links afterwards, up from 38%

Indicator by indicator

REF	WHAT THE ASKS	OUR 2025 POSITION
13.1	Research on climate action	Research on climate and health, including disaster relief medicine and environmental health
13.2.1	Low-carbon energy tracking	Monthly electricity meter readings and a weekly solar yield dashboard, reported to the Green Campus Committee
13.2.2	Low-carbon energy use	492,295 kWh of on-site solar, 12.5% of campus electricity in 2025
13.3.1	Local climate education	Climate Fresk workshop, school lessons and community campaigns on waste, food and energy
13.3.2	Climate Action Plan, shared	Green Campus Action Plan 2024–2028 and Emission Reduction Roadmap 2025–2030; draft Climate Action Plan consulted with students
13.3.3	Planning for climate disasters	Flood-resilience work with Majlis Perbandaran Selayang; on JKM's register of volunteer partners for emergencies
13.3.4	Informing government	Waste and litter data shared with MP Sepang and MBDK; input to the Cyberjaya Smart Low Carbon City Action Plan 2025
13.3.5	Education with NGOs	Climate Fresk, Alliance of River Three, Grass Malaysia and Sustainability Solutions
13.4.1	Commitment to carbon neutrality	Zero by 2050 Climate Strategy commits the University to a net-zero campus
13.4.2	Target date	Net zero by 2050, with a 78% cut in fleet emissions by 2030

SECTION 01

01

Our Path to Net Zero

The plan, the governance and the practical steps that move our campus towards zero emissions by 2050.

IN THIS SECTION

— *How the Green Campus Plan Is Governed*
— *Electrifying the University Fleet*
— *Old Phones, New Life: Cutting the Climate Cost of E-Waste*
— *From Frying Pan to Fuel Tank: Used Cooking Oil Becomes Biofuel*

OUR PATH TO NET ZERO

How the Green Campus Plan Is Governed

CYBERJAYA · 2024 – 2028

Zero by 2050

the University's commitment to a net-zero campus, delivered through the Green Campus Action Plan

The Green Campus Action Plan 2024–2028 is overseen by a Green Campus Committee chaired by the Vice-Chancellor, which meets quarterly and reports to the CEGB Executive Committee. It is anchored in the University's Zero by 2050 Climate Strategy and aligned with the GHG Protocol Corporate Standard, the Cyberjaya Smart Low Carbon City Action Plan 2025 and Malaysia's National Energy Transition Roadmap.

Monitoring is built into the plan. Facilities Management reads electricity meters monthly, the solar contractor runs a weekly yield dashboard, and a fleet emissions dashboard is reviewed every quarter. The University works with Majlis Perbandaran Sepang, the Cyberjaya Recycling Centre and Generasi Peduli Sampah to deliver it.

The next steps are set out to 2028: rainwater harvesting and quarterly panel cleaning from 2026, Green Campus targets built into staff performance goals, a standalone sustainability report and a first UI GreenMetric submission in 2027, and independent verification of emissions data from 2027.

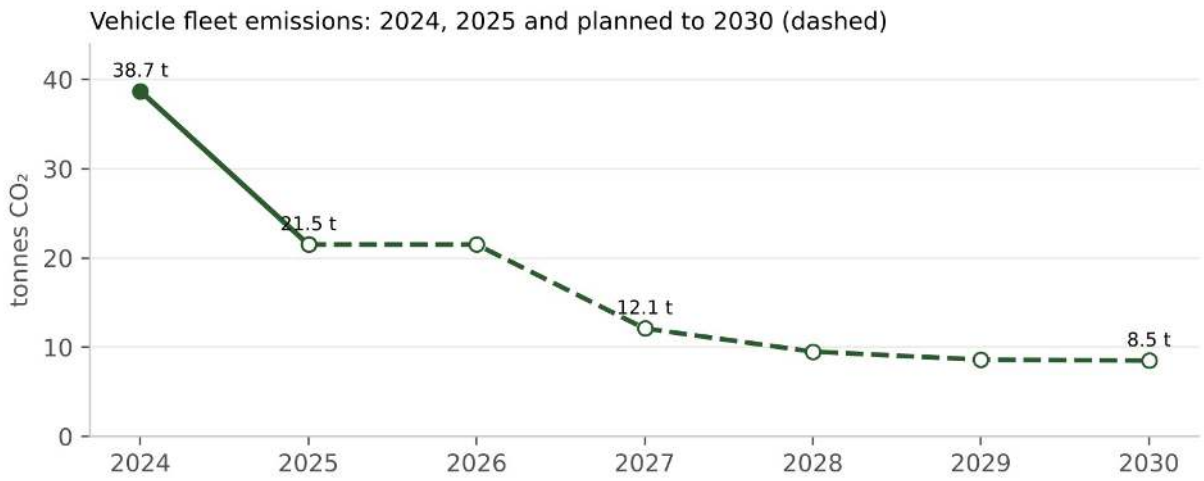
Factfile

WHEN 2024 – 2028
WHO Green Campus Committee, chaired by the Vice-Chancellor
REPORTS TO CEGB Executive Committee
FRAMEWORK GHG Protocol; Zero by 2050 Climate Strategy
WITH Majlis Perbandaran Sepang; Cyberjaya Recycling Centre; Generasi Peduli Sampah
INDICATORS 13.4.1 Carbon-neutral commitment · 13.4.2 Target date · 13.3.2 Climate Action Plan

OUR PATH TO NET ZERO

Electrifying the University Fleet

CYBERJAYA · 2025 – 2030



In 2024, the University's nine vehicles, four 44-seater diesel buses, three 16-seater vans and two sedans, emitted 38.7 tonnes of CO_2, with the ageing buses responsible for 81.5%. The Emission Reduction Roadmap 2025–2030 sets out a phased plan to cut fleet emissions by 78%, to about 8.5 tonnes, by 2030.

Phase 1 began in 2025. Student accommodation moved to a new hostel 300 metres from campus, within walking distance, removing a 19,200 km-a-year shuttle route. One end-of-life diesel bus and both sedans were retired, and the University bought its first electric vehicle, a BYD M6 electric MPV, with a 7 kW charging bay on campus.

Phase 1 cuts fleet emissions from 38.7 to 21.5 tonnes, down 44%, and annual running costs from RM 122,283 to RM 85,973. Electric vans and two more charging bays follow in 2028. Emissions are tracked through fuel logs, charging records and odometer readings, reported quarterly under GHG Protocol Scope 1.





Factfile

WHEN Phase 1, 2025; full plan to 2030
WHERE University of Cyberjaya
CHANGE First EV and 7 kW charging bay
RESULT Fleet CO_2 down 44%, 38.7 t to 21.5 t
LED BY Facilities Management
INDICATORS 13.2 Low-carbon energy · 13.4 Emission reduction · 11.4.2 Sustainable commuting

OUR PATH TO NET ZERO

Old Phones, New Life: Cutting the Climate Cost of E-Waste

CYBERJAYA · 8–10 DECEMBER 2025



Exercise	• Zumba	9:00 A.M. - 10:00 A.M.	• Level UG
Poster Making Competition	• SDG 3 : Good Health & Well-Being Poster Competition	1 Dec - 9 Dec	• Online Competition
Demonstration	• Capoeira Demonstration and Tryout with Capoeira Cordão de Ouro Malaysia • Healthy Cooking • Cardiopulmonary Resuscitation (CPR)	11:00 A.M. - 12:00 P.M. 10:00 A.M. - 1:00 P.M.	• Level UG
Education Booth	• Public Emergency Response & Demo about AED's vs CPR Awareness on Heart attack, menstrual complaints and menstrual hygiene • A Greener Planet. A Peaceful Future Booth (In collaboration with Greenpeace)	10:00 A.M. - 1:00 P.M. 10:00 A.M. - 4:00 P.M.	• Level UG
Health Screening	• Breast examination in collaboration with Breast Cancer Welfare Association (BCWA) • Physiotherapy Postural Assessment and Treatment • Anthropometric measurement analysis and consultation	10:00 A.M. - 1:00 P.M.	• Level UG

DAY 3 | 10 DECEMBER, 2025 | WEDNESDAY

Making a new phone or laptop takes a great deal of energy and raw materials, so recovering the metals in old devices helps reduce the emissions of making new ones. During SDG Week 2025, from 8 to 10 December, the University of Cyberjaya set up an e-waste collection point at Level UG, inviting students, staff and visitors to bring unwanted electrical and electronic items, such as old phones, chargers, cables and small appliances, that should never go into general waste.

Over three days, the campus community dropped off 186 kg of e-waste, including 74 mobile phones, more than 200 cables and chargers, and a box of dead laptop batteries. Every item was logged and handed to a recycler licensed by the Department of Environment to handle scheduled waste, which issued a certificate confirming safe disposal.

The drive has since become a permanent feature: an e-waste bin now sits at the Welcome Centre year-round, and the University's waste disposal procedure has been updated to require all IT equipment and batteries to go through the licensed recycler. The weight collected is reported in the University's annual sustainability report.

Factfile

WHEN 8–10 December 2025, then year-round
WHERE Level UG and Welcome Centre, University of Cyberjaya
WITH DOE-licensed scheduled-waste recycler
REACH 186 kg of e-waste, including 74 phones
LED BY SDG Week Committee
INDICATORS 13 Climate action · 13.3.2 Reporting through the sustainability report

OUR PATH TO NET ZERO

From Frying Pan to Fuel Tank: Used Cooking Oil Becomes Biofuel

CYBERJAYA · 10 DECEMBER 2025

142 litres

of used cooking oil collected in a day and turned into biofuel

Used cooking oil poured down the sink clogs drains and pollutes rivers; collected properly, it can be turned into biofuel that replaces part of the fossil diesel used in transport. On 10 December 2025, the last day of SDG Week, the University of Cyberjaya teamed up with Aedes Biobased Fuel (ABBF) through its KISMAT (Kitar Semula Minyak Masak) initiative to collect used cooking oil at Level UG.

Students, staff and campus food outlets were invited to bring their used oil for collection, turning a kitchen waste into a lower-carbon fuel. By the end of the day, 142 litres had been collected, most of it from the campus cafeteria vendors, along with bottles brought from home by students and staff living in Cyberjaya. ABBF issued a receipt for the full amount, confirming it would be processed into biofuel.

The collection has since become a monthly arrangement: all campus food vendors are now required to hand their used oil to ABBF, a condition added to their tenancy agreements. The University's facilities office records the volume each month as part of its waste and recycling data.

Factfile

WHEN 10 December 2025, then monthly
WHERE Level UG, University of Cyberjaya
WITH Aedes Biobased Fuel (ABBF), KISMAT
REACH 142 litres of used cooking oil
LED BY SDG Week Committee
INDICATORS 13.2 Low-carbon energy · 13.3.1 Local climate education

SECTION 02

02

Climate Education for Our Community

Helping students, schools, restaurants and park users understand climate change and act on it.

IN THIS SECTION

— *Playing the Climate Fresk: Students Map the Causes of Climate Change*
— *Little Earth Defenders Learn About a Warming Planet*
— *Compost, Not Landfill: Cutting Methane at a Cyberjaya Restaurant*
— *Green Reboot: Less Waste, Lower Emissions at Taman Tasek Cyberjaya*
— *Clean Lake, Clear Message: Climate Awareness at Taman Tasik Cyberjaya*

CLIMATE EDUCATION FOR OUR COMMUNITY

Playing the Climate Fresk: Students Map the Causes of Climate Change

CYBERJAYA · 10 DECEMBER 2025



How do a cup of coffee, a deforested hillside and a melting glacier connect? On 10 December 2025, the final day of SDG Week, the University of Cyberjaya's SDG Committee hosted a Climate Fresk workshop at Level UG. Working in cross-faculty teams, students and staff used the Climate Fresk cards, which are based on the findings of the Intergovernmental Panel on Climate Change (IPCC), to piece together how human activity drives climate change and what its consequences are.

Each team laid out the cards to build a chain of cause and effect, from burning fossil fuels and deforestation to rising temperatures, extreme weather, food insecurity and health impacts, then discussed what could be done to cut emissions at home, on campus and in their future professions. The workshop, led by a certified Climate Fresk facilitator, drew 142 participants from all faculties, along with 18 teachers and pupils from two Cyberjaya secondary schools invited as guests. In a short survey before and after, the share of participants who could correctly explain the link between greenhouse gases and extreme weather rose from 38% to 81%.

Teams ended the session by proposing practical climate actions for the University. Their top suggestions, including more shaded walkways, a campus switch-off campaign and a cycling and car-pooling scheme, were passed to the University's sustainability committee and included in the consultation for its draft Climate Action Plan.

Factfile

WHEN 10 December 2025
WHERE University of Cyberjaya
WITH Climate Fresk (certified facilitator)
REACH 142 participants and 18 school guests
LED BY SDG Coordinating Committee
INDICATORS 13.3.1 Local education programmes on climate · 13.3.2 Climate Action Plan

CLIMATE EDUCATION FOR OUR COMMUNITY

Little Earth Defenders Learn About a Warming Planet

CYBERJAYA · 20 MAY 2025



On 20 May 2025, twelve University of Cyberjaya students from the Environmental Volunteerism group 'The Fellowship' became teachers for a day at Falih Junior International Academy in Tamarind Square, Cyberjaya. With their lecturer, Dr Mohd Faiez bin Zaidon, and about six members of the school's staff, they ran a 'Go-Green' lesson for twenty pupils aged 8 to 10 on recycling, pollution and climate change.

The lesson was built around play. Pupils raced to sort rubbish into colour-coded bins, wrote short pieces from 'Earth's point of view', and finished with an environmental trivia quiz that explained, in simple terms, how waste and pollution add to a warming planet. By the end, the volunteers saw a clear improvement in how well the children could spot recyclables and explain pollution. A short before-and-after quiz confirmed it: the class average rose from 4 out of 10 to 8 out of 10. One nine-year-old's story, 'I am tired of eating plastic', was later pinned on the school notice board.

The visit is one of a series of school outreach sessions the University's Environmental Volunteerism course runs each semester with schools in Cyberjaya and Sepang, and the school has asked for a return visit with a lesson on energy saving. The volunteers left a set of lesson slides and sorting cards with the teachers so the activity can be repeated with other classes.



Factfile

WHEN 20 May 2025

WHERE Falih Junior International Academy, Tamarind Square, Cyberjaya

WITH Falih Junior International Academy

REACH 20 pupils aged 8 to 10

LED BY Environmental Volunteerism group 'The Fellowship'

INDICATORS 13.3.1 Local education programmes on climate

CLIMATE EDUCATION FOR OUR COMMUNITY

Compost, Not Landfill: Cutting Methane at a Cyberjaya Restaurant

CYBERJAYA · 10 DECEMBER 2025



Food waste rotting in landfills releases methane, a greenhouse gas many times more powerful than carbon dioxide in the short term. On 10 December 2025, the Environmental Volunteerism group 'Rooted', advised by Dr Mohd Faiez bin Zaidon, worked with Nasi Kandar Haji Deen in Cyberjaya and its staff to show how restaurant food waste can be composted instead.

After an orientation, participants sorted food scraps, then built up a compost container layer by layer, alternating 'green' food waste with 'brown' dry material, and learned how to aerate the mix so it breaks down properly. The restaurant's kitchen staff were surprised at how much of their daily waste, from onion skins to curry leaves, could go into the bin instead of the drain. The session ended with a clean-up, leaving one compost container in place.

Six weeks later, the container produced its first batch of compost, which was used on the planter boxes outside the University's main entrance. The restaurant has since started separating its food waste every day, and the group is working with the University's cafeteria vendors to set up a campus composting point.



Factfile

WHEN 10 December 2025

WHERE Nasi Kandar Haji Deen, Cyberjaya

WITH Nasi Kandar Haji Deen

REACH Restaurant kitchen team; first compost batch in six weeks

LED BY Environmental Volunteerism group 'Rooted'

INDICATORS 13.3.1 Local education on climate · cutting methane from food waste

CLIMATE EDUCATION FOR OUR COMMUNITY

Green Reboot: Less Waste, Lower Emissions at Taman Tasek Cyberjaya

CYBERJAYA · 26 MAY 2025



Every bag of rubbish that goes to landfill, and every new item bought to replace something that could have been reused, adds to greenhouse gas emissions. On 26 May 2025, the Environmental Volunteerism group '7 Eleven', advised by Mr Mohd Faiez bin Zaidon, tackled both. In the morning they cleared litter around the lake garden at Taman Tasek Cyberjaya, separating the waste on site and delivering the recyclables to the Cyberjaya Recycling Centre. The group weighed every bag before drop-off: 38 kg in total, 21 kg of it recyclable plastic, cans and paper.

In the afternoon, in room R107 on campus, participants learned to turn old T-shirts into shopping bags and worn cooler bags into pouches and cases, alongside a short talk on textile waste and the emissions that come from making new clothes. Each participant left with a bag they had made themselves, and the T-shirt bag pattern was shared on the University's student portal so others could follow it.

The group's waste figures were passed to the University's facilities office and added to the campus waste and recycling log, which the University uses to track how much of its waste is diverted from landfill. Small habits such as reusing and recycling are an everyday form of climate action.



Factfile

WHEN 26 May 2025
WHERE Taman Tasek Cyberjaya and campus
WITH Cyberjaya Recycling Centre
REACH 38 kg of waste removed, 21 kg recycled
LED BY Environmental Volunteerism group '7 Eleven'
INDICATORS 13.3.1 Local education on climate · waste and emissions

CLIMATE EDUCATION FOR OUR COMMUNITY

Clean Lake, Clear Message: Climate Awareness at Taman Tasik Cyberjaya

CYBERJAYA · 21 NOVEMBER 2025



On 21 November 2025, eleven students from Young Mercy Group 1, supported by Majlis Perbandaran Sepang (MP Sepang), cleaned Taman Tasik Cyberjaya in two phases: three and a half hours on the lake's central island and two and a half hours along the Cyberjaya Lakefront. They collected six bags of waste: two of dry leaves, two of plastic and two of paper.

The clean-up was only half the project. The students interviewed park users and turned the interviews into montage videos for a social-media campaign of around 50 posts, encouraging the public to look after the city's green spaces. A series of the posts explained how urban parks and lakes help cool the city during heatwaves, and why keeping them clean matters as temperatures rise. The interviews pointed to two litter hotspots: the jetty on the central island and the food-truck area by the lakefront, where bins overflow at weekends.

The group shared a map of the two hotspots with MP Sepang, which has since added bins and a weekend collection at the lakefront food-truck area. The group also made a donation to Pusat Jagaan Al-Fikrah Malaysia.



Factfile

WHEN 21 November 2025
WHERE Taman Tasik Cyberjaya and Cyberjaya Lakefront
WITH Majlis Perbandaran Sepang
REACH Six bags of waste; two litter hotspots mapped
LED BY Young Mercy Group 1
INDICATORS 13.3.1 Climate awareness in the local community

SECTION 03

03

Nature and Flood Resilience

Working with river NGOs and local councils on nature-based defences against a changing climate.

IN THIS SECTION

— *Bamboo, Bees and a Cooler River at Taman Melawati*
— *Preparing for Heavier Floods on Sungai Gombak*

NATURE AND FLOOD RESILIENCE

Bamboo, Bees and a Cooler River at Taman Melawati

KUALA LUMPUR · 21 NOVEMBER 2025



Trees and plants along rivers are one of nature's best defences against a changing climate: they hold soil in place during heavy rain, shade the water and store carbon. On 21 November 2025, the Environmental Volunteerism group 'Sustain Edge', advised by Dr Mohd Faiez bin Zaidon, joined the weekly GREduAction programme run by the Alliance of River Three (ART!) and Friends of Sungai Klang at Taman Melawati.

After a tour of the NGO's facility and a briefing, the volunteers cleared rubbish from the park, removed invasive plants and planted 36 bamboo saplings along the riverbank. They collected 13.5 kg of rubbish. A biodiversity walk on the Kelulut trail introduced them to stingless bees, pollinators and native plants. The group's guide pointed out that the bamboo would stabilise the riverbank within two years and shade the water, keeping it cool enough for native fish. Students recorded 14 plant and insect species on the trail using the iNaturalist app, adding to ART!'s ongoing biodiversity survey of the site.

The University and ART! have since signed a letter of collaboration making Taman Melawati a permanent field site for the Environmental Volunteerism course, with groups returning every semester to check how many saplings have survived. The day showed students how nature-based solutions can help cities adapt to heavier rainfall and rising temperatures.

Factfile

WHEN 21 November 2025
WHERE Taman Melawati River Three, Kuala Lumpur
WITH Alliance of River Three (ART!); Friends of Sungai Klang
REACH 36 bamboo saplings; 13.5 kg of rubbish removed
LED BY Environmental Volunteerism group 'Sustain Edge'
INDICATORS 13.3.5 Environmental education with NGOs · nature-based climate solutions

NATURE AND FLOOD RESILIENCE

Preparing for Heavier Floods on Sungai Gombak

GOMBAK, SELANGOR · 30 NOVEMBER 2025



As climate change brings heavier and more frequent downpours, communities along Malaysia's rivers face a growing flood risk. On 30 November 2025, the Environmental Volunteerism group 'Silvanova', advised by Dr Mohd Faiez bin Zaidon, worked with the NGO Grass Malaysia, officers from Majlis Perbandaran Selayang (MPS) and the village head to restore the riverbank at Kebun Komuniti Gombak Utara, in a flood-prone stretch of Sungai Gombak.

Students, NGO members, MPS officers and community gardeners cleared rubbish from the garden and riverbank, with the waste collected by Majlis Perbandaran Selayang for disposal. They planted flowers and trees to stabilise the soil and reduce erosion, and the NGO's president and the garden's leader spoke on flood resilience. The group also tested the river water at three points with simple field kits; turbidity was highest just downstream of a storm drain, and the results were passed to MPS for follow-up. MPS officers also showed residents how to sign up for the council's flood early-warning alerts.

Before the event, the students met the village head to plan the work with the community. MPS has since agreed to install a litter trap at the storm drain identified in the testing, and Grass Malaysia and the University plan to repeat the water tests every three months to track whether the riverbank planting improves water quality.

Factfile

WHEN 30 November 2025
WHERE Kebun Komuniti Gombak Utara, beside Sungai Gombak
WITH Grass Malaysia; Majlis Perbandaran Selayang; village head
REACH 12 community members and NGO partners; 8 students
LED BY Environmental Volunteerism group 'Silvanova'
INDICATORS 13.3.3 Co-operative planning for climate-related disasters · 13.3.5 Education with NGOs

University of Cyberjaya

SDG Coordinating Committee

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