



Awards Asia 2025

Outstanding Contribution to Environmental Leadership

Institution Name	Nanyang Technological University, Singapore
Submission title or project name	Maximising NTU's Solar Photovoltaic Deployment
Nominee / key personnel	
URL	
Submission	Central to Nanyang Technological University's (NTU) environmental stewardship are its solar energy expansion efforts. As of end-2023, NTU installed 23,500 solar panels across campus, achieving solar capacity of 9.10 megawatt-peak – one of the largest photovoltaic developments by a single entity in Singapore. This generates about 10 million kilowatt-hours of renewable energy annually, enough to power over 4,400 two-room flats. NTU's carbon emissions have also been reduced by over 4,000 tonnes annually, as solar energy partially powers all campus buildings. NTU's solar energy expansion is financed through a sustainability-linked bond – the first of its kind for a university – demonstrating leadership in integrating sustainability with corporate strategy. In 2024, NTU seeks to increase solar capacity to 14.6 megawatt-peak, setting new standards for large-scale solar energy adoption. With buildings accounting for nearly 40% of global carbon emissions, NTU's efforts contribute significantly to decarbonisation, while supporting Singapore in transitioning to a cleaner energy future.



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Institution Name	Chulalongkorn University
Submission title or project name	National Food Waste Management Campaign of Local Administrative Organisation in Thailand, an innovative contribution to Waste-to-Carbon Initiative
Nominee / key personnel	Professor Dr Chanathip Pharino, Department of Environmental Engineering and Sustainability, Faculty of Engineering
URL	https://ghgreduction.tgo.or.th/th/tver-database-and-statistics/t-ver-registered-project/item/1186-national-food-waste-management-campaign-of-local-administrative-organization-in-thailand.html
Submission	Chulalongkorn University, in partnership with Thailand's Ministry of Interior, has implemented climate policies to meet national greenhouse gas reduction targets. Together, they developed a household-level waste segregation system under the National Food Waste Management Campaign, registered with the Thailand Voluntary Emission Reduction Programme. Chulalongkorn University's Department of Environmental Engineering played a key role in creating a method for reducing greenhouse gases by producing compost from organic waste. The project focuses on organic waste segregation at the source, which makes up 60% of total waste. A total of 7,773 local administrative organisations and 14 million households across 76 provinces have joined. Compost bins have reduced methane emissions, a greenhouse gas 28 times more potent than carbon dioxide. So far, over 2.5 million tons of food waste have been segregated, resulting in the certification of 366,394 tons of carbon dioxide equivalent, the same as planting 30 million trees.



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Outstanding Contribution to Environmental Leadership

Institution Name	Our Lady of Fatima University
Submission title or project name	YUPIRA: Creating a Manually Operated Waste Compression System in Practising Plastic Waste Disposal
Nominee / key personnel	Dr Ramonita A. Salazar, Campus Administrator
URL	
Submission	Our Lady of Fatima University (OLFU) has launched "YUPIRA: Creating a Manually Operated Waste Compression System in Practising Plastic Waste Disposal", a project that aims to assist national efforts on waste disposal management through a device that prepares plastic waste for recycling, which reduces the need for virgin materials. Students initially developed a prototype for efficient manual compression of plastic waste, which improves waste packaging prior to recycling or disposal. The university then used this device for waste disposal management, and the institution also established test facilities for waste management efforts in partner schools. The benefits of the YUPIRA device include increased capacity of existing trash containers, more efficient waste disposal, reduction in the costs of transport of wastes, and improved revenue from the sale of plastic waste. Through YUPIRA, OLFU aims to develop outreach and educational activities with partner communities and collaboration with environmental organisations.



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Outstanding Contribution to Environmental Leadership

Institution Name	Burapha University
Submission title or project name	PEMSEA: Environmental Learning Centre for the Eastern Regional
Nominee / key personnel	Assistant Professor Jariyavadee Suriyapan; Assistant Professor Punwalai Kewara
URL	https://www.facebook.com/pnlcbuu
Submission	The Eastern Regional PEMSEA Learning Centre at Burapha University (BUU-PEMSEA) leads marine and coastal sustainability initiatives, aligning with the United Nations' Sustainable Development Goals (SDGs). Through strong collaborations with the university's Institute of Marine Science and key governmental agencies, BUU-PEMSEA integrates policy development and community engagement to promote sustainable marine resource management. BUU-PEMSEA's innovative capacity-building programmes have trained over 1,000 coastal residents in water quality monitoring, fostering local ownership of environmental protection. The centre also conducts climate vulnerability assessments, introducing adaptive strategies to enhance coastal resilience. BUU-PEMSEA hosts international symposiums on the global stage, sharing expertise in marine science and coastal management. With its comprehensive, community-centred approach, BUU-PEMSEA exemplifies environmental leadership, making a significant impact on marine conservation while contributing to the achievement of SDG 2 (Zero Hunger), SDG 13 (Climate Action) and SDG 14 (Life Below Water).



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Institution Name	Hiroshima University
Submission title or project name	Accelerating Carbon Neutrality: 'Carbon Neutral x Smart Campus 5.0' Initiative
Nominee / key personnel	Shinji Kaneko, Executive Vice President (Global Initiatives)
URL	
Submission	In January 2021, Hiroshima University became the first in Japan to set a concrete goal of achieving carbon neutrality by 2030, 20 years ahead of the national target. Its "Carbon Neutral x Smart Campus 5.0" initiative outlines a roadmap based on energy management, research promotion and human resource development. Solar panels have been installed on 70 buildings and parking lots at the Higashi-Hiroshima Campus, with an expected total output of 6.6 MW by 2024, covering 20% of campus electricity needs. The campus serves as a demonstration site for carbon-neutral research, focusing on geothermal energy, hydrogen, carbon recycling and more. To foster talent, carbon neutrality courses are offered to all students, and partnerships with companies like Nissan provide hands-on experience. The university is taking practical steps to achieve carbon neutrality by 2030.



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Outstanding Contribution to Environmental Leadership

Institution Name	Beaconhouse National University
Submission title or project name	Sources of Air Pollution in South Asia
Nominee / key personnel	Usman Nazir (Beaconhouse National University); Murtaza Taj (Lahore University of Management Sciences); Sara Khalid (University of Oxford, UK)
URL	https://www.ox.ac.uk/news/2023-06-15-ai-could-help-detect-unregulated-sources-air-pollution-south-asia-new-project-shows
Submission	Beaconhouse National University's (BNU) "Illegal Kiln Activity during SMOG Period" project utilises cutting-edge AI and Earth observation techniques to detect and curb illegal kiln operations, which significantly contribute to air pollution in South Asia during SMOG periods. The project, in collaboration with the University of Oxford, offers a scalable model for identifying unregulated sources of pollution and has already impacted local government policies in Pakistan, leading to stricter monitoring protocols and a reduction in emissions. This initiative highlights BNU's leadership in environmental sustainability and exemplifies how academic institutions can contribute to real-world solutions for air quality improvement. The project's success is underpinned by interdisciplinary research, innovative technology and strong collaboration, setting a benchmark for environmental leadership across the higher education sector.



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Outstanding Contribution to Environmental Leadership

Institution Name	Khwaja Fareed University of Engineering and Information Technology
Submission title or project name	AquaGuard: Water Conservation for a Sustainable Future
Nominee / key personnel	Professor Dr Muhammad Sagir; Dr Muhammad Bilal Tahir; Dr Muhammad Umer Farooq
URL	
Submission	AquaGuard: Water Conservation for a Sustainable Future is an initiative by Khwaja Fareed University of Engineering and Information Technology (KFUEIT) in Pakistan, focused on addressing water management challenges. This comprehensive programme promotes sustainable water use through educational campaigns, workshops and stakeholder partnerships. KFUEIT's efforts include advanced irrigation technologies such as smart irrigation systems and soil moisture sensors to optimise water usage, particularly in agriculture. The university collaborates with the International Water Management Institute for research on brackish and saline water aquaculture, and its Water Management Plan sets clear benchmarks for water conservation. The university also implements efficient landscaping designs, leak detection systems and promotes the use of treated water to ensure safety and well-being on campus. By fostering innovation in water conservation and enhancing agricultural practices, AquaGuard contributes to sustainable water usage for a healthier future.



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Outstanding Contribution to Environmental Leadership

Institution Name	Ganja State University, in collaboration with European Bank for Reconstruction and Development, Regional Environmental Centre for the Caucasus, and AtkinsRéalis
Submission title or project name	Collaboration with external partners to deliver Green City Action Plan
Nominee / key personnel	Centre for Smart Sustainable Cities and Regions, Ganja State University
URL	https://ebrdgreencities.com/assets/Uploads/PDF/Ganja-Green-City-Action-Plan-EN.pdf
Submission	The Centre for Smart Sustainable Cities and Regions at Ganja State University, in collaboration with the European Bank for Reconstruction and Development, Regional Environmental Centre for the Caucasus, and AtkinsRéalis, developed the Green City Action Plan for the city of Ganja in Azerbaijan. For the first time in the history of the European Bank for Reconstruction and Development, the bank collaborated with a university within its Green Cities programme where Ganja State University performed as a local project coordinator in creating the Ganja Green City Action Plan. This was an innovative way of collaborating with external partners to support global societal issues where Ganja State University assisted in identifying, prioritising and connecting cities' environmental challenges and development of the Green City Action Plan of Ganja City. This plan presents long-term aspirations and priority actions of Ganja City and will be used as a roadmap for realising its ambitions and Green City Vision.