Arab Academy for Science, Technology & Maritime Transport

Arab Academy
for Science, Technology & Maritime Transport



Report 2024 / 2025

SDG 12

SDG 12

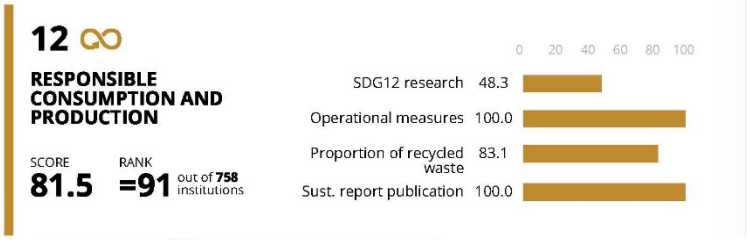
Our Aim in 2024 -2025

AASTMT advanced SDG12 by expanding campus waste-reduction systems, supporting national waste-management projects, and empowering students with impactful recycling and circular-economy initiatives.

RESPONSIBLE CONSUMPTION AND PRODUCTION

THE Impact Ranking Scores 2023-2024

THE IMPACT RANKINGS



12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Key Milestones in 2024-2025

BRCGS Food Safety Global Standard Training Course for Silo Foods

On 11 November 2024, the Productivity and Quality Institute at AASTMT delivered a training course on the BRCGS Food Safety Global Standard — developed by the British Retail Consortium — for Silo Foods Company, led by Dr. Moustafa Elsayed. The course covered food safety, quality and operational requirements for food manufacturers and foodservice organisations, with a focus on hygiene and safety practices that ensure ethical and responsible sourcing throughout the production chain. The BRCGS certification is recognised worldwide as a benchmark for food safety and quality management.

BRCGS Food Safety Global Standard Training for Silo Foods on AASTMT webpage

"High-Risk Food Safety" Specialised Training Course Delivered to Silo Foods

From 20 to 22 July 2025, the Productivity and Quality Institute at AASTMT delivered a three-day specialised course on high-risk food safety for the staff of Silo Foods, presented by Dr. Moustafa Elsayed, an expert in food quality and safety systems. The programme was designed for employees working in high-risk food environments and covered hazard analysis, critical control points, contamination prevention and international best practice. By building food-safety capability inside its supply partners, AASTMT extends the ethical and responsible sourcing standards set out in this policy beyond its own campuses.



Silo Foods Empowers Staff through Specialized Training on High-Risk Food Safety on AASTMT webpage

Certificate Ceremony for the 4th Cohort of the Professional Diploma in Food Industries Quality and Safety

On 10 August 2025, the Productivity and Quality Institute at AASTMT held the graduation ceremony for the fourth cohort of its Professional Diploma in Food Industries Quality and Safety, attended by the Secretary General of the Agricultural Professions Syndicate and the

Syndicate's programme coordinator. The guests commended the graduates' performance and the academic and applied components of the programme, which prepares professionals for the food quality and safety sector. The diploma supports the ethical sourcing of food and supplies by qualifying specialists who audit and uphold safety standards across the food supply chain.



Certificate Ceremony for the 4th Cohort of the Professional Diploma in Food Industries Quality and Safety on AASTMT webpage

ISO 17025:2017 Equipment Calibration Training Delivered to Silo Foods

From 11 to 13 August 2025, PQI delivered a specialised training programme on "ISO 17025:2017 – Equipment Calibration" for the technical team at Silo Foods in El Sadat City, led by Dr. Mahmoud Zayda, an expert in quality systems and laboratory accreditation. The programme covered measurement traceability, evaluation of uncertainty, calibration procedures and technical documentation. Reliable, calibrated testing is a foundation of quality assurance in food manufacturing, and the training extends AASTMT's support for responsible production and the ethical sourcing of food to one of its long-standing food-sector partners.



Specialized Training on ISO 17025:2017 and Equipment Calibration Delivered to Silo Foods on AASTMT webpage

Medical Waste Disposal Procedures Within the Arab Academy

During the 2024/2025 academic year, the College of Pharmacy at AASTMT reinforced its commitment to environmental safety by strengthening the hazardous-waste disposal programme in its laboratories. Liquid chemical waste is collected in dedicated bottles in each laboratory before being transferred into larger containers, while broken glass is stored and handled separately. All laboratory hazardous waste is ultimately handed over to Nahdet Misr, AASTMT's certified waste-management partner, for safe and compliant disposal.



Medical waste disposal procedures within the Arab Academy on AASTMT webpage

Enhancing Healthcare WASH Standards Through GAHAR–AASTMT Collaboration

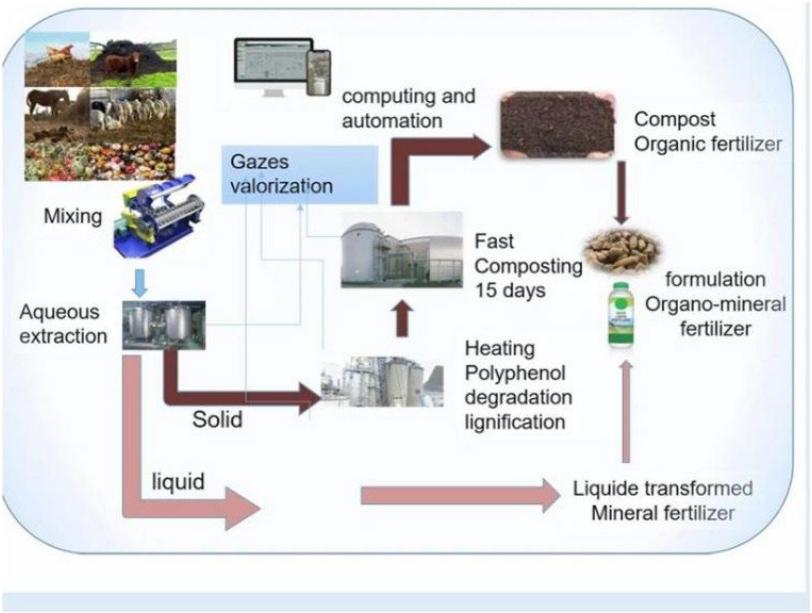
On 24 November 2024, the General Authority for Healthcare Accreditation and Regulation (GAHAR) and AASTMT signed a cooperation protocol to build the capability of medical professionals and support healthcare facility accreditation. The joint programme trains participants to apply WASH standards in medical settings, covering safe water supply, wastewater management, hygiene practice and pollution control — all of which govern how clinical and hazardous waste streams are handled. Graduates receive an AASTMT diploma together with the EGYCAP credential from GAHAR.



Enhancing Healthcare WASH Standards Through GAHAR–AASTMT Collaboration on AASTMT webpage

ECo-FertiS: PRIMA-Funded Project Turning Manure and Plant Residues into Sustainable Fertilisers

AASTMT is a partner in ECo-FertiS, a project funded under the EU-supported PRIMA programme that runs from May 2024 to May 2027. The project develops an improved process for recycling manure, biowaste and plant residues into mineral, organic and organo-mineral fertilisers, tested through Living Labs in Egypt, Greece, Italy, Morocco, Spain and Tunisia. By returning agricultural residues to the soil as fertiliser, ECo-FertiS keeps this material out of landfill and reduces dependence on synthetic fertilisers, carrying the circular-economy approach of the Academy's campus composting programme to farms across the Mediterranean.



ECo-FertiS on AASTMT UI GreenMetric webpage
ECo-FertiS project webpage

AASTMT Promotes Organic Waste Recycling to Support Water Quality Protection

During the 2024/2025 academic year, AASTMT expanded its campus composting and resource-recovery programme, processing food waste from cafeterias, restaurants and student housing together with landscaping residues through a mechanical composter and earthworm-based vermicomposting. Sorting and treating organic waste at its source reduces the risk of water and groundwater pollution from uncontrolled disposal. Food waste is separated at source through the campus smart recycling system, which also separates plastic and aluminium waste, and the quantities recovered are recorded as part of the Academy's waste tracking. The Department of Agriculture and Landscape Design reported 300 bags of compost (50 kg each, 15 tonnes in total), used to fertilise campus lawns, and 400 bags of peat moss (50 kg each, 20 tonnes in total), used as planting soil and soil amendment for palm trees, lawns and landscaped areas, cutting reliance on chemical fertiliser and reinforcing the Academy's commitments on ethical sourcing of food and supplies. The composter is a self-contained, insulated unit that speeds up aerobic composting of kitchen waste using a built-in mixer, adjustable temperature settings and moisture sensors. The vermicomposting unit relies

on the red wiggler earthworm *Eisenia fetida*, a method the Academy has used since an internally funded research project in 2021–2022, and the worms it produces can be dried into a protein-rich meal for fish and poultry feed.



AASTMT Promotes Organic Waste Recycling to Support Water Quality Protection on AASTMT webpage

AASTMT's TouMaLi Project Named "Champion of Plastic Pollution Prevention in the Mediterranean"

In October 2024, the EU-funded TouMaLi project, in which AASTMT is the Egyptian partner, was awarded the honorary title "Champion of Plastic Pollution Prevention in the Mediterranean" in recognition of its voluntary action against plastic pollution. The title was awarded under the regional campaign of the EU-funded Water and Environment Support (WES) project, run in partnership with the Union for the Mediterranean and the Mediterranean Action Plan of the UN Environment Programme. The campaign focuses on reducing single-use plastics and plastic waste in the Mediterranean, and the award recognises the project's work with the tourism sector, including the hotel waste management and extended producer responsibility activities that AASTMT delivers in Alexandria.



TouMaLi Wins Champion of Plastic Pollution Prevention in the Mediterranean on TouMaLi Project Website

Enactus AAST Sheraton Crowned National Champions with Rose-Carbon and Aquatica Projects

On 28 September 2024, Enactus AAST Sheraton won the Egypt National Champions title with two sustainability projects: Rose-Carbon — the first local production of activated carbon designed to capture pollutants from waste materials — and Aquatica — a customised animal feed formula using 70% fish and corn waste combined with water hyacinth leaves, addressing waste recovery and food security. The team engaged over 210 members in implementation, demonstrating a circular economy approach that diverts organic and plastic waste from landfill and converts it into high-value products.

Enactus AAST Sheraton National Champions — Rose-Carbon and Aquatica Projects on AASTMT webpage
Enactus AAST Sheraton Tackles Water Pollution and Sustainability Through Innovative Projects on AASTMT webpage
Innovation for Sustainability: Enactus AAST Sheraton Achieves National Excellence on AASTMT webpage

Minister of Environment and AASTMT President Agree on Sustainability Cooperation Roadmap

On 26 October 2024, Minister of Environment Dr. Yasmine Fouad met with AASTMT President Dr. Ismail Abdel Ghaffar to discuss bilateral cooperation on environmental fields. They agreed on a detailed roadmap covering: establishing a Climate Change Information Centre designed by AASTMT's technology company; launching the "Together to Reduce Carbon" initiative under the Ministry's patronage, including a student competition to design a carbon-tracking application; technical consultations on waste infrastructure design; cooperation on plastic waste reduction using AI-based applications; training textile-sector students through the Ministry's EPAP III industrial pollution-control programme; and capacity-building courses for medical waste management.



Minister of Environment Meets AASTMT President to Discuss Cooperation
Minister of Environment Meets AASTMT President on Climate Information Centre and Plastic Reduction App – Maspero
AASTMT and Ministry of Environment Strengthen Cooperation to Advance Environmental Sustainability on AASTMT webpage

Smart Solar Waste Compactor: Automated Recording of Recyclable Waste Value

In July 2025, graduating students at AASTMT's Alexandria Branch presented the "Smart Solar Waste Compactor", a solar-powered device that compresses up to half a tonne of plastic waste per cycle at institutions such as schools, hospitals and factories, with a compact, sturdy design for easy transport between sites. Of direct relevance to waste tracking, the unit issues an automated receipt recording the value of each batch of compressed waste, which can be redeemed for cash at plastic recycling facilities — giving an economic incentive to divert plastic and creating a documented, auditable record of the volume and value of material diverted from general waste.



AASTMT Innovates Smart Waste and Agricultural Technologies Supporting SDG 6, 9 & 12 on AASTMT webpage

AASTMT Advances Sustainable Campus Planting to Support Water Conservation

On 14 January 2025, AASTMT carried out planting and landscaping across its campuses as part of its sustainability programme. At the Alamein Campus, work included planting palms, shrubs and 50 drought-tolerant yellow bells (Tecoma stans), along with improvements to planting beds and walkways. Agricultural waste from the campus was recycled into organic fertilisers and soil amendments through the Academy's composting programme. Compost improves soil structure and moisture retention, reducing irrigation needs and cutting reliance on disposable chemical fertiliser inputs.



AASTMT Sustainable Campus Planting and Water Conservation on AASTMT webpage

AASTMT Installs Water Meters and Control Upgrades to Track and Reduce Water Consumption

On 28 June 2025, AASTMT announced the installation of new water meters and upgraded treatment and pumping controls across its campus. The meters measure the groundwater extracted from the wells used for irrigation, so the Academy can record extracted volumes, track consumption and plan irrigation demand, reducing water waste. The works also upgraded two control panels at the main restaurant's desalination plant, added control panels for the water pumps serving Accommodation Buildings A and B, an alternating pump-control panel at Engineering Building G and a dedicated panel for the fish-tank pumps at the Aquaculture Laboratory. Measuring water use at source gives the Academy a sound basis for the responsible consumption of natural resources and for efficient, low-waste operation of its facilities.



AASTMT Strengthens Water Management through Metering and Control Upgrades on AASTMT webpage

ISO 14001 Lead Auditor Training Extends Environmental Management to Industry

In September 2024, the Productivity and Quality Institute (PQI) at AASTMT delivered its ISO 14001 Lead Auditor course for Petromaint Company, led by Dr. Mohamed Mounir. The course trained the company's staff to audit Environmental Management Systems against ISO 14001, covering the standard's requirements, audit principles and the integration of management systems. Because ISO 14001 requires organisations to identify and control their environmental impacts, including waste generation, resource use and pollution, the training carries AASTMT's waste-minimisation and responsible production practices into the operations of an industrial partner.



ISO 14001 Lead Auditor Course for Effective Environmental Management System Audits on AASTMT webpage

MAFI Agricultural Manufacturing – AI Supply Chain Partnership

On 24 September 2024, AASTMT signed a three-year cooperation protocol with MAFI, a company specialising in agricultural produce manufacturing, to collaborate on AI and advanced technologies for improving agricultural operations. The agreement establishes the first Centre of Excellence in AI-driven Supply Chain Management and Industry in Egypt and the Middle East, with an annual innovation forum. Under the protocol, AASTMT will help MAFI recruit a dedicated AI team, design preliminary robots for production operations to improve productivity and quality control across the full production chain, and deliver advanced AI training programmes for MAFI employees.



MAFI and AASTMT Cooperation Protocol on AI Supply Chain Management
AASTMT – MAFI for Agricultural Produce Industries Follow-up Meeting on AASTMT webpage

Egyptian–UK Partnership with the Arab Organization for Industrialization and UCLan

On 10 November 2024, AASTMT, the Arab Organization for Industrialization (AOI) and the University of Central Lancashire (UCLan) signed an EU-supported agreement to upskill AOI engineers and technicians in modern industrial methods. The partnership encourages manufacturing processes that reduce water consumption, increase recycling and cut industrial wastewater pollution, and also supports capacity building, renewable-energy integration, digital transformation and international cooperation. A joint training programme was launched to prepare Egyptian graduates in eco-friendly production and clean technology, carrying AASTMT's minimisation requirements directly into the practices of a major industrial supplier.



Egyptian–UK Partnership to Promote Sustainable Industry and Support SDG 6 on AASTMT webpage

ENPPI Memorandum of Understanding for Industrial Cooperation

On 29 December 2024, AASTMT and ENPPI (Engineering for Petroleum and Chemical Industries) signed a Memorandum of Understanding at the Academy's Abu Qir campus in Alexandria. The MoU covers linking academic programmes with practical industry work and labour market needs, specialised training for Academy students and ENPPI employees to develop technical and managerial skills, support for graduation projects and research in engineering, petroleum and chemicals, and shared use of research facilities, laboratories and equipment to develop products and improve industrial processes. The agreement was signed by Prof. Dr. Ismail Abdel Ghaffar (AASTMT President) and Eng. Wael Lotfy Mostafa (ENPPI Chairman and Managing Director). By improving industrial processes in the petroleum and chemicals sector, the partnership supports the cleaner, more resource-efficient production that SDG 12 calls for.

ENPPI and AASTMT Memorandum of Understanding

PQI Training on Organisational Excellence Management

On 3 February 2025, the Productivity and Quality Institute (PQI) at AASTMT delivered a training programme on Organisational Excellence Management, covering best practices in institutional sustainability, resource efficiency and continuous improvement. The programme emphasised quality management systems that support the reduction of waste and disposable items across organisational operations.



PQI Organisational Excellence Management Training on AASTMT webpage

Smart Factory for Industrial Projects – Digital Transformation Diploma

In May 2025, AASTMT launched an integrated professional diploma in digital transformation in partnership with Smart Factory for Industrial Projects. The diploma is designed to prepare industrial and administrative staff to lead digital transformation in their organisations. The agreement was signed by Eng. Karim Magdy (Smart Factory Executive Director) and Dr. Khaled Saeed El-Kilani (Dean, AASTMT Industry Service Complex), under the patronage of the Academy president. The programme builds supplier capability by equipping industrial partners with the skills needed for Industry 4.0 adoption and digital supply chain management.

AASTMT Launches Digital Transformation Diploma with Smart Factory

Benha Electronics Industries (Factory 144) – Cooperation Protocol

On 5 June 2025, AASTMT signed a cooperation protocol with Benha Electronics Industries (Factory 144), a company under the Ministry of Military Production. The agreement covers intensive training programmes to develop staff skills on both sides, joint organisation of conferences and workshops, improving manufacturing processes and adopting best engineering practices, ensuring product quality by applying international quality standards at every manufacturing stage, and cooperation on national projects, digital transformation and AI. The protocol was signed by Eng. Tarek El-Abbasy (Benha Electronics Chairman) and Dr. Ismail Abdel Ghaffar (AASTMT President).

Benha Electronics Industries and AASTMT Cooperation Protocol

Inorganic Waste Quantities Tracked and Disclosed Through UI GreenMetric

AASTMT continues to measure and publicly disclose the quantities of waste generated and treated across its campuses through its annual UI GreenMetric returns. The most recent reported figures show total inorganic non-toxic waste falling from 307 tonnes to 282 tonnes — a reduction of 25 tonnes, or 8.1% — of which 198 tonnes, 70.2%, were reused or recycled. The figures are broken down by stream: paper and cardboard fell from 135 to 124 tonnes (77.4% treated), soft and hard plastic from 134 to 126 tonnes (70.6% treated), and miscellaneous waste from 38 to 32 tonnes. AASTMT has also introduced an electronic waste recycling programme to ensure obsolete equipment is disposed of sustainably.


UI-Green Metric

[3.9]Total volume inorganic waste produced this year

Amount (ton)

Type of Waste	Produced		Reduced (ton)	Treated		
	Last Year (ton)	This Year (ton)		Reused/Recycled (ton)	Down-cycled (ton)	Up-cycled (ton)
Inorganic non-toxic (TOTAL)	307	282	25	198		
Paper & Cardboard	135	124	11	96		
Soft & Hard Plastic	134	126	8	89		

[3.9] Total volume inorganic waste produced this year – UI GreenMetric, Sustainable AASTMT

Annual Environmental Performance Disclosure Through UI GreenMetric

In addition to its sustainability report, AASTMT publishes detailed environmental performance data each year through its UI GreenMetric returns on the Sustainable AASTMT portal, covering setting and infrastructure, energy and climate change, waste, water, transportation, education and research, and governance. The waste section discloses measured quantities for each waste stream, as summarised in the inorganic waste item above, together with the Academy's targets of a 15% cut in total waste generation before 2030 and a zero-waste campus by 2049. Publishing these indicators openly allows stakeholders to verify reported performance against the commitments made in the Academy's policies.

UI GreenMetric environmental performance data – Sustainable AASTMT
[3.8] Organic waste treatment – UI GreenMetric, Sustainable AASTMT

AASTMT Ranked 453rd Globally in 2024 UI GreenMetric World University Rankings

In December 2024, AASTMT was ranked 453rd globally out of 1,477 universities in the 2024 UI GreenMetric World University Rankings, announced at a seminar and award ceremony in São Paulo, Brazil. Egypt had 36 universities represented in this edition. The ranking assesses universities across six categories — setting and infrastructure, energy and climate change, waste, water, transportation, and education and research — providing a comprehensive external benchmark for AASTMT's waste tracking and environmental management performance against peer institutions worldwide and an independent check on the Academy's own sustainability reporting.

36 Egyptian Universities in 2024 UI GreenMetric World University Rankings

AASTMT Achieves Unprecedented Leap in QS Sustainability Rankings 2025

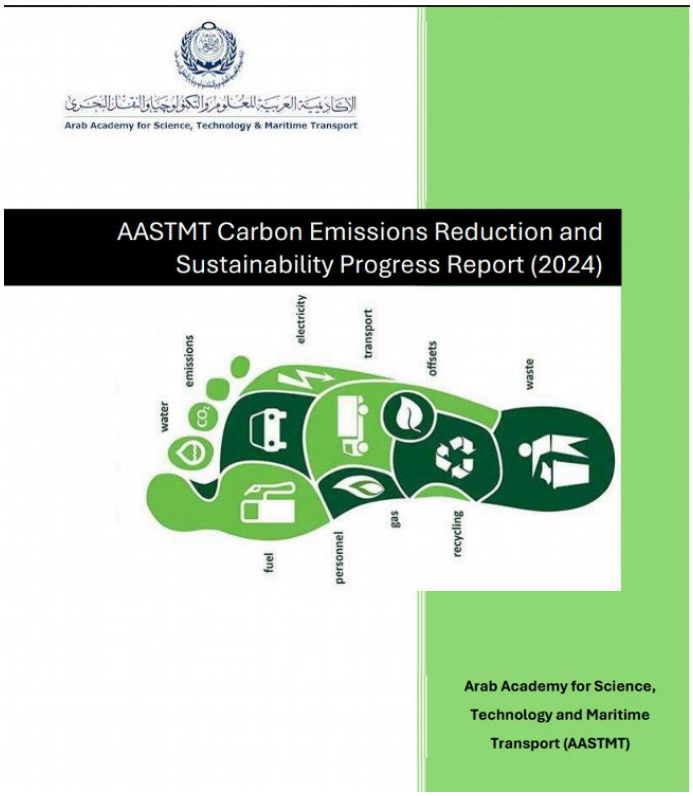
In December 2024, AASTMT achieved a significant improvement in the QS Sustainability Rankings 2025, leading Egyptian universities and advancing its global position. Described in Egyptian press coverage as an "unprecedented qualitative leap" both locally and internationally, the ranking evaluates environmental sustainability, social impact and governance criteria. This result is separate from the THE Impact Rankings 2025 and the UI GreenMetric ranking, and provides an additional independent benchmark for the Academy's sustainability reporting and environmental disclosure. Its environmental criteria examine how institutions manage their resources and operations, complementing the waste and consumption data the Academy reports under SDG 12.

AASTMT QS Sustainability Rankings 2025 Achievement

AASTMT Carbon Emissions Reduction and Sustainability Progress Report (2024)

On 30 April 2025, AASTMT published its Carbon Emissions Reduction and Sustainability Progress Report, a 19-page public document covering performance during 2024 against its

2018–2021 baseline and the preceding 2022–2023 report, and tracking the Academy against its Climate Action Plan milestones of at least a 30% reduction by 2025 and 50% by 2040. On waste, the report records expanded labelled collection points, reinforced operating procedures and term-start refresher briefings for staff and students, with recycling focused on paper, plastics and e-waste routed to approved local facilities and NGO partners, and annual checkpoints used to address bin placement and contamination. It sets a 2030 goal to divert at least 70% of campus waste from landfill and commits to completing a comprehensive recycling assessment and optimisation plan in 2025. These resource measures are linked to a fall of roughly 3% in Scope 3 emissions, to 101,873,000 kg CO_2-e, with total emissions 32.8% below the 2019 base year.



AASTMT Carbon Emissions Reduction and Sustainability Progress Report (2024) – full document

AASTMT Progress in the Times Higher Education Impact Rankings 2025

On 19 June 2025, AASTMT reported its results in the Times Higher Education Impact Rankings 2025, which assess universities on their contribution to the United Nations Sustainable Development Goals. The Academy ranked first among the 51 Egyptian institutions taking part, eighth among 350 Arab universities, and 104th out of 2,318 participating universities worldwide. The AASTMT President congratulated the university community and the committee responsible for following up the rankings. The published results form part of the Academy's annual external sustainability disclosure alongside its own reporting. The rankings include SDG 12 (Responsible Consumption and Production), under which the Academy reports its waste tracking, recycling and responsible sourcing performance.



AASTMT Progress On "The Times Higher Education Impact Rankings 2025" on AASTMT webpage

Abu Qir Campus Carbon Footprint — Longitudinal GHG Tracking Study Published

On 1 July 2025, AASTMT announced that researchers from AASTMT and Alexandria University published a longitudinal assessment of greenhouse gas emissions at the Abu Qir campus (2018–2021) in the Euro-Mediterranean Journal for Environmental Integration. Using the GHG Protocol, the study tracked Scope 1, 2 and 3 emissions, recording a fall from 154,594 tCO_2e in 2019 to 88,981 tCO_2e in 2020. The study identifies emission sources and energy efficiency opportunities toward AASTMT's net-zero goal, contributing to the Academy's sustainability reporting and public environmental disclosure. Scope 3 accounting covers categories such as purchased goods and waste generated in operations, so tracking it supports the waste reduction and responsible consumption targets of SDG 12.

Abu Qir Campus Carbon Footprint Study on AASTMT webpage

CMTT Carbon Footprint Research — Integrated Energy Management Strategies

On 5 July 2025, AASTMT announced that a study at the College of Maritime Transport and Technology (CMTT) in Alexandria was published in the journal Energy for Sustainable Development. The research measured the college's carbon footprint for 2022–2023 using the GHG Protocol and ISO 14064-1 across Scopes 1, 2 and 3, and proposes four strategies: improving building energy efficiency, solar PV electricity generation, shifting to electric vehicles and converting recycled cooking oil into biodiesel. The combined scenario estimates a 29.4% carbon footprint reduction, providing a data-driven model for campus-level waste-to-energy tracking.

CMTT Carbon Footprint Research on AASTMT webpage

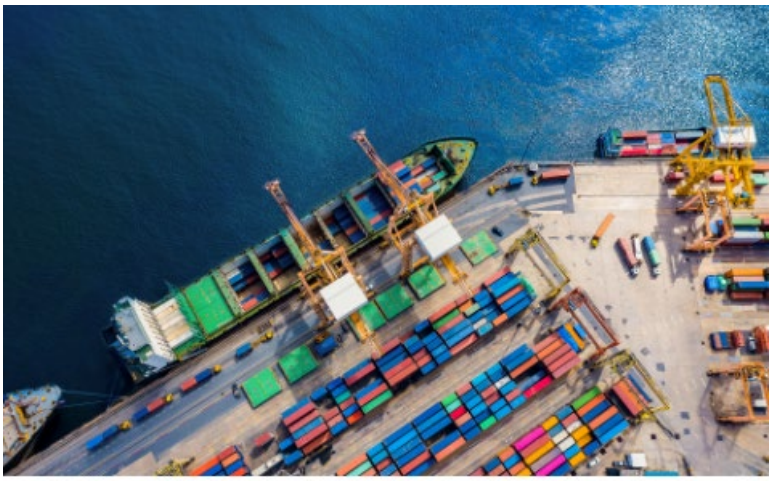
GreenMED: EU-Funded Green Shipping Project with AASTMT as Mediterranean Partner

Running from October 2023 to December 2025, the GreenMED project — funded by the European Maritime, Fisheries and Aquaculture Fund (EMFAF) — brings together five partners from Greece, Spain, Cyprus and Egypt to accelerate the decarbonisation of Mediterranean shipping. AASTMT is the sole Egyptian partner, contributing to the creation of the

Mediterranean Sustainable Shipping Observatory (MSSO), which collects data on ship emissions, fuel use and port energy supply. In its first year the project analysed 30 million vessel movements and built a stakeholder community of over 30 organisations. The project aligns with the Academy's community-service role in promoting sustainable maritime practices across the region. Monitoring fuel use and ship emissions helps shipping operators reduce fuel consumption and adopt more resource-efficient operations.



GreenMED partners
Source: GreenMED project



Source: Adobe Stock Photos - By Jamesboy

GreenMED Project on EU CINEA Website

AASTMT Secures Four Additional EU INTERREG NEXT MED Projects on Green Technologies

In 2025, AASTMT was selected for four additional projects under the EU's INTERREG NEXT MED programme, with a combined Academy share of approximately €1.11 million: Green OLIVE — solar-driven industrial decarbonisation producing 1 MW solar heat to cut fossil fuel use by 18–22% (€180,000); RESt4GREEN — energy efficiency in public buildings using solar trees, smart benches and energy monitoring (€360,000); HEEFTA — holistic environmental education covering water management, biodiversity and sustainable agriculture (€190,000); and SPEED UP — innovation hubs helping Mediterranean SMEs adopt green business practices and social responsibility (€380,000). Partners span Greece, Spain, Italy, Turkey, Tunisia, Jordan,

Cyprus, Lebanon and Palestine. SPEED UP's support for green business practices among SMEs promotes sustainable production, while the energy monitoring and water management work in the other projects encourages responsible consumption of resources.

AASTMT Triumphs in EU INTERREG Programme — Five Groundbreaking Projects Secured

Wilkes University (USA) – College of Business and Engineering MoU

On 12 November 2024, AASTMT signed a Memorandum of Understanding with Wilkes University's College of Business and Engineering (COBE) in the United States. The MoU covers educational exchange, research collaboration, student exchange and mutual growth, including a collaborative research project between Wilkes MBA students and AASTMT postgraduate students and a joint symposium organised under both colleges. The partnership engages an international business school that covers supply chain management programmes, extending AASTMT's sustainability and procurement knowledge to its international academic partners.



Wilkes University COBE Advances New Partnerships in Egypt

GEMS-TECH "Green Maritime Horizons": Advancing Sustainable Maritime Education

On 3 December 2024, the Innovation and Training Sector and the College of Engineering at AASTMT announced funding from the European Union's Erasmus+ Programme for the GEMS-TECH project. The project updates maritime education in Egypt and Kenya by embedding sustainable shipping practice, green technologies and water-resource protection into higher education, responding to a gap in the skills needed to address marine pollution and wastewater challenges. Expected outcomes include two advanced sustainability laboratories in Egypt and Kenya and the long-term inclusion of clean water and ocean protection in national education strategies, extending the Academy's environmental requirements to its international service and training partners.



GEMS-TECH Green Maritime Horizons on AASTMT webpage

AASTMT–ULCO MoU Signed Under BLUE ERA for Sustainable Maritime Transport Research

On 7–8 April 2025, AASTMT President Prof. Dr. Ismail Abdel Ghaffar and ULCO (Université du Littoral Côte d'Opale) President Prof. Dr. Edmond Abi-Aad signed a Memorandum of Understanding at the Franco-Egyptian Conference on Higher Education and Scientific Research in Cairo. The MoU, under the EU-funded BLUE ERA project, covers co-run postgraduate study tracks, student and faculty exchange, and joint research in sustainable maritime transport, marine biotechnology, digital transformation and innovation-focused education, extending the Academy's sustainability commitment to international research partnerships. Research on marine biotechnology and sustainable maritime transport supports the responsible use of marine resources and more sustainable production in the blue economy.

AASTMT–ULCO MoU Under BLUE ERA Project

GREENMEDPORTS: EU-Funded Project for Sustainable Mediterranean Ports

On 11 June 2025, the GREENMEDPORTS project was launched under the EU INTERREG NEXT MED programme, with AASTMT as a key partner alongside institutions from Italy, Algeria, Spain, Malta, Jordan and Tunisia. The project, with a total budget of €2.5 million (89% EU contribution and AASTMT share of €260,000), aims to develop a Carbon Footprint Platform and Green Label Port certification system for Mediterranean ports using green technology and AI. This is one of five INTERREG NEXT MED projects secured by AASTMT, with a combined Academy share of €1.37 million, extending the Academy's sustainability expertise to port communities across the Mediterranean. A green label for ports encourages port operators to adopt more resource-efficient operations and to reduce the waste and emissions associated with port activity.

GREENMEDPORTS Project on INTERREG NEXT MED

Community Engagement

AASTMT Supports the Final Handover of the Sanitary Landfill in Al-Zeiniya, Luxor

On 25 September 2024, Egypt's Ministries of Environment and Local Development carried out the final handover of the sanitary landfill in the city of Al-Zeiniya, Luxor Governorate, built at a cost of about EGP 21 million. The handover was made through the committee responsible for steering, monitoring and receiving infrastructure projects under the first programme of the national integrated solid waste management system, on which AASTMT sits alongside the Ministries of Environment, Local Development and Defence (represented by the Military Technical College and the Arab Organization for Industrialization). The landfill gives Luxor an engineered site for the safe final disposal of municipal solid waste.



Final Handover of the Sanitary Landfill in Al-Zeiniya, Luxor – Maspero

AASTMT Supports the Handover of a New Sanitary Landfill Cell in Damietta

On 23 October 2024, Egypt's Ministries of Environment and Local Development handed over a new sanitary landfill cell in Abu Griada, Faraskour District, Damietta Governorate, as part of the national programme to replace open dumping with engineered disposal. The joint committee overseeing the handover included AASTMT alongside the Ministry of Defence, represented by the Military Technical College and the Arab Organization for Industrialization, and Damietta Governorate. The new 7-feddan cell cost EGP 45 million and is equipped with administrative buildings, generator rooms, fuel tanks, water reservoirs and a leachate drainage system, bringing total investment in Damietta's waste system beyond EGP 146 million.



AASTMT Supports the Handover of a New Sanitary Landfill Cell in Damietta on AASTMT webpage
Initial Handover of the Abu Griada Sanitary Landfill, Damietta – Al-Eqtisad News

AASTMT Delivers 23 Sanitary Landfills for Waste Management Across 16 Governorates

In a statement published on 31 October 2024, AASTMT reported on its four-year role (2019–2023) in developing Egypt's solid waste management system, during which it participated with the relevant ministries in building the infrastructure of the new waste system and in training and qualifying governorate staff to operate, manage and monitor it across collection, transport, treatment and final disposal. The Academy also supported the adaptation of international systems and modern waste technologies to Egyptian conditions and raised awareness among decision makers of global strategies for all waste streams. Its stated aim was to steer national plans towards integrated waste management and to maximise the return on public investment in the sector.



Arab Academy for Sciences Handing over 23 sanitary landfills in 16 governorates on AASTMT webpage
AASTMT Contribution to Egypt's Solid Waste Management Roadmap – Naval Academy News

Handover of a New Sanitary Landfill Cell in Juhayna, Sohag Governorate

On 16 November 2024, the Ministries of Environment and Local Development handed over a new sanitary landfill in Juhayna, Sohag Governorate, built at a cost of EGP 60 million. The joint

committee included AASTMT, the Arab Organization for Industrialization, the Military Technical College and the local Sohag authorities. The 10-feddan landfill serves the Juhayna and El-Maragha districts and must meet environmental standards that prevent soil and groundwater contamination from leachate. Total investment in Sohag's waste management system has reached EGP 230.5 million across landfills, recycling facilities and transfer stations.



Handover of a New Sanitary Landfill Cell in Suhag to Advance Sustainable Waste Management by AASTMT on AASTMT webpage

AASTMT Supports the Final Handover of the Samasta Sanitary Landfill Cell in Beni Suef

In June 2025, the Ministers of Environment and Local Development announced the final handover of the sanitary landfill cell in the city and district of Samasta, Beni Suef Governorate, built at a cost of about EGP 63 million as part of the two ministries' plan to upgrade the cleaning system and establish sanitary landfills for the safe disposal of waste. The handover was carried out through the specialised committee that steers, monitors and receives the infrastructure projects of the national solid waste management programme, of which AASTMT is a member together with the Ministries of Environment, Local Development and Defence.



Final Handover of the Samasta Sanitary Landfill in Beni Suef – Maspero

AASTMT Supports Handover of Integrated Sanitary Landfill Cells in Beheira and Minya

On 22 July 2025, the Ministry of Local Development announced the final handover of the 33-feddan “Badr 2” sanitary landfill cell and the initial handover of the new 5-feddan “Badr 3” cell at Badr Centre in Beheira Governorate, together with the initial handover of a safe sanitary landfill in West Minya. The handover committee included representatives of the Ministries of Environment, Local Development and Defence — through the Military Technical College and the Arab Organization for Industrialization — and AASTMT. Total investment in Beheira’s waste system reached about EGP 280 million, while Minya’s reached about EGP 277.5 million, including a treatment and recycling plant at Tuna El-Gabal.





Handover of Integrated Sanitary Landfill Cells in Beheira and Minya to Enhance Waste Management

Egyptian Parliament Committee Visits TouMaLi Beach-Cleaning Pilot in Alexandria

On 27 June 2025, AASTMT hosted the Local Development Committee of the Egyptian Parliament on a visit to Alexandria’s beaches under the EU-funded TouMaLi – Prevention of

Tourism Marine Litter project. The AASTMT team demonstrated the beach-cleaning machines used in the pilot and showed how data on the marine litter collected along the Alexandrian coastline is recorded and analysed to identify where waste accumulates and to target interventions against plastic pollution. The Committee discussed how legislative support could help scale up the pilot's waste collection approach to other coastal regions of Egypt, linking research, practical waste management and policy.



Parliament Committee Visits Alexandria's Beaches: Strengthening the Fight Against Marine Litter on TouMaLi Project Website

AASTMT and Nahdet Misr Launch a Pilot Project to Clean Up Alexandria's Beaches

On 10 October 2024, Nahdet Misr for Modern Environmental Services — the Arab Contractors company responsible for public cleaning in Alexandria — announced new screening equipment to tackle marine waste, operating under Alexandria Governorate through joint cooperation between Nahdet Misr, AASTMT and the German Ministry of the Environment. Working with the Academy, the company began trial operation of a sand-cleaning system using two new sand-sieving machines that screen sand from public beaches and hotels, coordinated with Alexandria's Central Administration for Tourism and Resorts. The project is aimed at disposing of marine debris safely and reducing the use of single-use plastic.





AASTMT, Nahdet Misr launched a pilot project to clean up Alexandria's beaches on AASTMT webpage

Port Training Institute Students Join the "By Fisher to Fisher" Port Cleanup Initiative

On 21 December 2024, students of the seafarers' basic studies programme at the Port Training Institute took part in the "By Fisher to Fisher" programme, supervised by Global Stars Company under the auspices of the Ministry of Environment and Banque du Caire, as part of the wider "Green & Clean" campaign. The initiative supported the first cleanup operations at the fishing ports of Alexandria's Eastern Harbour and promoted the recovery and recycling of collected waste for reuse in local economic activity. The Institute confirmed it would continue taking part in initiatives that advance environmental conservation and sustainable development.





Port Training Institute Students Participate in By Fisher to Fisher Port Cleanup Initiative on AASTMT webpage
College of Fisheries and Aquaculture Technology Students in the "By Fisher to Fisher" Programme on AASTMT webpage

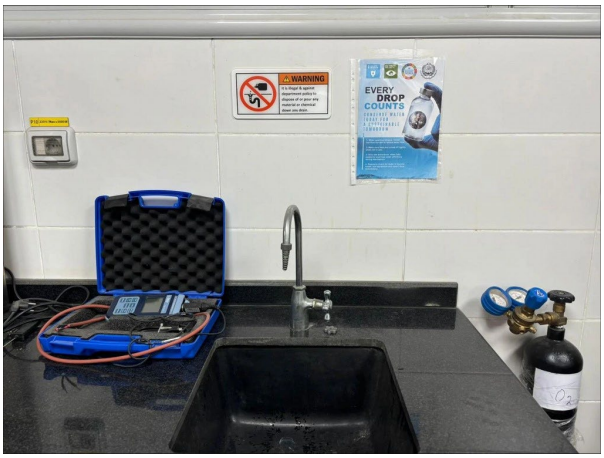
Alexandria Beach Cleaning and Awareness Campaign in Coordination with AASTMT

On 30 May 2025, Alexandria's Central Administration for Tourism and Resorts carried out an expanded cleaning and awareness campaign, in coordination with AASTMT, on the dangers of discarding plastic waste on beach sand or into the sea. The campaign covered six beaches — Tahouna El-Mandara, Venice, Boïrivage, Geziret El-Dahab, Mahmoud Said and Glym — where waste was collected and separated on site in preparation for recycling. The administration noted that the campaign forms part of national efforts to protect the marine environment and reduce plastic pollution, which harms marine organisms and can transmit disease to humans.

Awareness campaign to clean six Alexandria beaches to protect the marine environment

AASTMT Launches the "Every Drop Counts" Conservation Campaign

On 24 October 2024, AASTMT launched the "Every Drop Counts" campaign to promote responsible consumption among students and staff. Awareness posters were placed in teaching laboratories across several departments, reminding users to avoid waste during experiments and in daily use, and placed alongside standing instructions prohibiting the disposal of materials or chemicals down laboratory drains. Faculty members reinforced efficient use, leak reporting and sustainable laboratory practice during practical sessions, embedding minimisation behaviour into everyday campus life.



AASTMT Launches "Every Drop Counts" Water Conservation Campaign on AASTMT webpage

College of Language and Communication Clothing Donation Initiative

On 11 May 2025, the College of Language and Communication (CLC) at AASTMT's Smart Village campus organised a clothing donation initiative, collecting garments from the college community and passing them on to the college's workers and other people in need. Giving clothing a second life through reuse keeps usable textiles out of the waste stream and encourages a culture of responsible consumption among students and staff.



CLC Supports Its Community Through Clothing Donation Initiative on AASTMT webpage

Job Shadowing and Industrial Training with Suez Company

On 27 November 2024, Suez Company hosted a job-shadowing programme for AASTMT students from the Mechanical Engineering and Electrical and Control Engineering departments, organised by the Training Committee of the College of Engineering and Technology at Abu Qir under Prof. Dr. Iman Morsi, Vice Dean for Training and Community Service. The visit gave students first-hand exposure to water and wastewater treatment operations run by a specialist service contractor, with a particular focus on water and waste management practice. The College thanked the company for its efforts and confirmed its interest in continuing the partnership.





Job Shadowing with Suez on AASTMT webpage
Suez Training for AASTMT Engineering Students on AASTMT webpage

Events

Supply Chain Department Field Trip to Dina Farms

On 5 November 2024, the Student Affairs office organised a scientific field trip for Supply Chain Department students from the Abu Qir campus to Dina Farms, one of Egypt's largest integrated dairy and agriculture operations. The visit, arranged by the Department of Cultural and Social Activities, gave students first-hand exposure to food production, quality-control processes and the supply chain behind ethical sourcing of dairy and agricultural products, reinforcing classroom knowledge of responsible sourcing standards with practical industry experience.

Supply Chain Department Field Trip to Dina Farms on AASTMT webpage

Technical and Vocational Institute Students Visit Edita Food Industries

On 28 November 2024, the Industry Engagement Unit organised a field trip for students of the Technical and Vocational Institute at the Smart Village Branch to Factory No. 8 of Edita Food Industries in 6th of October City. Students followed the production stages of two of the company's product lines and learned about the food safety procedures applied on the line, gaining first-hand exposure to responsible food production and the quality controls that support ethical sourcing across the food supply chain.



Scientific Trip for Technical and Vocational Institute Students to Edita Food Industries on AASTMT webpage

Technical and Vocational Institute Students Visit Lamar Farm and Factory in Nubaria

On 30 April 2025, in coordination with the Industry Engagement Unit, students of the Technical and Vocational Institute – Alexandria Branch visited Lamar Farm and Factory in Nubaria. They toured the farm and the dairy and juice factory, following each stage of production and packaging from farm to finished product, which links classroom learning to sustainable food production and responsible packaging along the supply chain.



Scientific Visit of Technical and Vocational Institute Students to Lamar Farm and Factory on AASTMT webpage

AASTMT Hosts Workshop on Responsible Ship Recycling with Global Marketing Systems (GMS)

On 4 November 2024, the Department of Marine and Offshore Engineering at the College of Engineering and Technology held an online workshop entitled “Responsible Ship Recycling – Innovations and Best Practices” in collaboration with Global Marketing Systems Inc. (GMS), one of the world’s largest ship-recycling companies. The session was delivered by Dr. Anand Hiremath, Chief Sustainability Officer at GMS, and Eng. Kiran Thorat, Trader at GMS Dubai. Ship recycling involves the controlled removal of hazardous materials from end-of-life vessels, and the workshop addressed the technical and regulatory practices required to carry this out safely and responsibly.



Responsible Ship Recycling: Innovations and Best Practices on AASTMT webpage
Responsible Ship Recycling Workshop – post-event coverage on AASTMT Facebook
Responsible Ship Recycling Workshop – announcement on AASTMT Facebook

TouMaLi EPR Workshop: Extended Producer Responsibility for Packaging Waste in Egypt

On 27–28 January 2025, AASTMT hosted a two-day workshop on Extended Producer Responsibility (EPR) for packaging waste under the EU-funded TouMaLi project at its Alexandria campus. The event brought together Egyptian government officials, private-sector representatives and international waste management experts to discuss the design and implementation of an EPR system for Egypt. Dr. Gasser E. Hassan from AASTMT presented on the TouMaLi project's progress and introduced the Circul8 digital platform for tracking packaging waste data across the value chain. The workshop agreed that AASTMT would compile the list of products used by participating hotels and convert the collected data from items into kilograms for reporting on the Circul8 platform, with data collection already under way at the Sunrise Hotel in Alexandria. As a follow-up, the Landbell Group delivered Circul8 training in Alexandria on 25 February 2025 for Egypt's Waste Management Regulatory Authority (WMRA) to support an EPR register for packaging waste from the tourism sector. The workshop supports the Academy's community-service mission by extending waste-management knowledge to government and industry stakeholders.



TouMaLi EPR Workshop at AASTMT on TouMaLi Project Website
Circul8 Training for EPR Implementation in Egypt and Tunisia on TouMaLi Project Website

AASTMT Car Pooling Day Initiative

On 27 October 2024, AASTMT launched a Car Pooling Day initiative as part of its sustainability and community outreach activities aligned with SDG 12. The initiative encouraged students and staff to share rides to campus, reducing carbon emissions, fuel consumption and traffic congestion. Promotional materials highlighted the environmental and economic benefits of carpooling, reinforcing the Academy's commitment to sustainable transportation and responsible consumption practices within the university community.



AASTMT Car Pooling Day Initiative on AASTMT Instagram

PQI Workshop on Awareness and Communication Strategies for Sustainable Development and Water Conservation

On 20 November 2024, the Productivity and Quality Institute (PQI) at AASTMT participated in a workshop on awareness and communication strategies for sustainable development and water conservation. The workshop focused on effective methods for communicating sustainability messages to campus communities and external stakeholders, including strategies for reducing the use of disposable items and promoting reusable alternatives in daily campus operations.



PQI Workshop on Sustainable Development and Water Conservation Awareness on AASTMT webpage

ISCEA Case Competition 2024 — Innovation in Supply Chain Management

On 8 October 2024, the International Transport and Logistics Institute (ITLI) at AASTMT organised the 2nd annual ISCEA Case Competition. Twelve teams participated, with the Eagles Team from AASTMT's South Valley Campus (Aswan) winning first place and earning the right to represent Egypt at regional and global ISCEA competitions. Third place went to a team named "Green Chain," reflecting sustainability themes in supply chain problem-solving. The competition showcased student talent in supply chain management innovation and sustainable logistics.



ISCEA Case Competition 2024 at AASTMT on AASTMT webpage

Procurement & Supply Chain in the Construction & Engineering Industry Seminar

On 29 October 2024, the Department of Electrical and Control Engineering at AASTMT's Abu Qir campus hosted a seminar on procurement and supply chains in the construction and engineering industry, delivered by Eng. Ezzat Sallam, Regional Procurement Manager at Elsewedy Electric PSP. The session covered procurement objectives, supply-chain structure and process flow, the stages of large national projects and the challenges engineers face, using an Elsewedy-linked power station project as a case study. Students, faculty, engineering students from other Egyptian universities and senior engineers attended, supporting the Academy's aim of raising procurement and minimisation awareness among the suppliers and contractors it works with.





Procurement & Supply Chain in the Construction & Engineering Industry Seminar on AASTMT webpage

Supply Chain Accelerator Retreat in Hurghada

On 28 January 2025, the Entrepreneurship Centre's Supply Chain Accelerator held a retreat in Hurghada, bringing together 10 specialised startups showing strong progress and innovation in the supply chain sector. Topics covered included current supply chain challenges, emerging opportunities in logistics, digital transformation, sustainability and operational excellence. Participants included founders, industry experts and mentors, extending the Academy's supply chain minimisation practices to the startup ecosystem.



Supply Chain Accelerator Retreat in Hurghada on AASTMT webpage

"The Future of Supply Chains" Workshop at Alexandria Port

On 13 July 2025, the Port Training Institute held a workshop at Alexandria Port on the future of supply chains, drawing about 40 participants from Egypt, Saudi Arabia and Libya, both in person and via live stream. Topics included: global shipping routes' effect on supply chains, economic and environmental aspects of maritime shipping, AI in supply chain management, blockchain applications and logistics innovation within ports. The workshop was organised by Prof. Alaa Mahmoud Morsy in partnership with the British University in Egypt.



Future of Supply Chains Workshop at Alexandria Port on AASTMT webpage

Term 9 Students Showcase Innovative Solutions for Water and Waste Management

On 18 December 2024, Term 9 students presented research projects addressing pressing environmental problems, covering water and wastewater treatment, solid waste handling and disposal, carbon-footprint reduction and desalination. The projects examined current challenges, emerging solutions and best practice in sustainable environmental management, including practical ways to cut the use of disposable and single-use items across campus operations. The Academy commended the students on the professionalism and creativity of their work.





Environmental Sustainability in Action: Term 9 Students Showcase Innovative Solutions on AASTMT webpage

AASTMT Industry Service Complex at the Hydrogen Mediterranean Summit

On 18–19 February 2025, AASTMT's Industry Service Complex participated in the Hydrogen Mediterranean Summit in Cairo. On the first day, the Complex joined a "Hydrogen Village" panel discussion covering hydrogen education, safe hydrogen transport and hydrogen's role in reducing carbon emissions. On the second day, it delivered a presentation titled "Education and Training & Green Hydrogen Technology," extending the Academy's sustainability expertise to the energy and industry sectors working on clean hydrogen transition. Green hydrogen offers energy-intensive industries a route to cleaner production with lower fossil-fuel consumption, in line with the sustainable production goals of SDG 12.

AASTMT at the Hydrogen Mediterranean Summit on AASTMT webpage

"The Hydrogen Horizon: Egypt's Path to Greener Energy in Oil & Gas" Workshop

On 14 April 2025, the Marine and Offshore Engineering Department at the College of Engineering and Technology (Abu Qir) held a workshop exploring hydrogen as a greener energy option for Egypt's oil and gas sector. The session was presented by Eng. Mohamed Salah Ahmed El-Banna, Director of Gas Facilities Projects at GASCO (Egyptian Natural Gas Company), and formed part of the department's ongoing effort to build student skills through industry professional engagement on sustainable energy transition. Shifting the oil and gas

sector towards hydrogen supports cleaner production and lower fossil-fuel consumption across Egyptian industry.



Hydrogen Horizon Workshop with GASCO on AASTMT webpage

French University Delegation Visits AASTMT Abu Qir to Strengthen Academic Partnership

In April 2025, following the second Franco-Egyptian Maritime and Environmental Forum held under the BLUE-ERA project, a delegation from the Université du Littoral Côte d'Opale (ULCO) visited AASTMT's Abu Qir campus. Led by ULCO President Prof. Edmond Abi Aad and Vice-President for International Relations Prof. Rachid Amara, the delegation toured the Integrated Simulation Complex, the Planetarium and the College of Pharmacy. Prof. Yasser El-Sonbaty, Vice President for Community Service and Environmental Development, received the visitors on behalf of AASTMT President Dr. Ismail Abdel Ghafar Ismail Farag. The visit reinforced institutional cooperation on maritime sustainability research and the extension of partnership policies to international academic suppliers of knowledge. Joint research of this kind supports

the sustainable use of marine resources and more responsible production practices in the maritime sector.



French Delegation Visit to AASTMT on BLUE-ERA Project Website

PQI and Wilkes University Hold First International Student Research Symposium on Sustainability

On 5 May 2025, PQI held its first International Student Research Symposium in collaboration with Wilkes University (USA), under the theme “Global Strategies for a Sustainable Future: Bridging the Global North and South through Innovation, Leadership, and Market Resilience”. Five joint student teams from the two institutions presented research on topics including bio-based products and antimicrobial coatings, building students’ capacity for research on sustainable production and alternatives to conventional materials.



PQI and Wilkes University Organize First International Student Research Symposium on Sustainability and Innovation on AASTMT webpage

IEEE IC-ESI'2025 — International Competition on Eco-Smart Innovations at AASTMT

On 10–11 May 2025, AASTMT hosted the IEEE International Competition on Eco-Smart Innovations (IC-ESI'2025), organised by the IEEE Egypt AP-S/MTT-S Joint Chapter in collaboration with IEEE Egypt WIE. The competition, themed "Create the Future," focused on eco-smart innovations for intelligent sustainability, including smart environments that track water and electricity use to reduce environmental impact and promote environmental awareness. The awards ceremony was held at AASTMT's Alexandria campus. Monitoring water and electricity use is a direct tool for cutting the waste of resources and encouraging responsible consumption.

IEEE IC-ESI'2025 Competition at AASTMT

EU Workshop on Green Hydrogen Technologies at AASTMT Port Said Campus

On 1 August 2025, AASTMT's Port Said Campus hosted a workshop titled "Advancing Green Hydrogen Technologies and Applications" as part of the GREEN Project funded by the EU under the ERASMUS+ programme. The event aimed to integrate green hydrogen and sustainability into higher education, presented findings from technical studies and surveys, and encouraged dialogue among partners and experts, extending the Academy's sustainability services to the clean energy sector. Green hydrogen supports cleaner industrial production with lower fossil-fuel consumption, one of the aims of SDG 12.



EU Green Hydrogen Workshop at AASTMT Port Said on AASTMT webpage

AASTMT Participates in the World Cities Day 2024 Exhibition

On 31 October 2024, the AASTMT Entrepreneurship Centre took part in the exhibition held alongside the World Cities Day 2024 celebration at the Bibliotheca Alexandrina, attended by the AASTMT President and the Director of the Bibliotheca. The exhibition focused on youth-led climate action and local efforts towards urban sustainability. The Centre presented projects aligned with the Sustainable Development Goals, including biotechnology-based food preservation, AI-assisted monitoring of marine species, the recycling of plastic bottles into

new materials and the conversion of waste into environmentally friendly building materials — extending the Academy's sustainability practice to the services and partners of the wider city.



AASTMT Center of Entrepreneurship Participation in the "World Cities Day 2024" Exhibition on AASTMT webpage

37th Arab Ministerial Transport Council Hosted by AASTMT

On 12–13 November 2024, AASTMT hosted the 37th session of the Arab Ministerial Transport Council and the 73rd session of its Executive Bureau in Alexandria. Attended by Arab transport ministers and senior officials, the sessions addressed AI's role in improving efficiency, safety and sustainability in transport and logistics, a regional mechanism for shipbuilding and ship repair, and maritime transport procedures. AASTMT, working with the EU and Egypt's Ministry of Transport, will prepare a study on a green hydrogen supply chain for the transport sector.

Arab Academy Hosts Key Transport Council Sessions in Alexandria

AASTMT Showcases Climate Leadership at COP29

In November 2024, AASTMT took part in the UN Climate Change Conference (COP29) in Baku, Azerbaijan, to strengthen international cooperation on climate issues. Together with the League of Arab States, the Academy organised a high-level forum entitled "Innovative Artificial Intelligence Solutions for Climate: Smart Agriculture and Water Resource Management", bringing together policymakers, researchers and experts including representatives of UNESCO, the Arab Organization for Agricultural Development and ACSAD to discuss food security, climate adaptation and sustainable development. The AASTMT delegation also observed the official climate negotiations as part of the Arab Negotiators Group. These discussions on smart agriculture and water resource management relate directly to sustainable food production and the responsible use of natural resources.





AAST Showcases Climate Leadership at COP29 on AASTMT webpage

5th Arab Sustainable Development Week — Opening Session at AASTMT

On 25 November 2024, AASTMT hosted the opening session of the 5th Arab Sustainable Development Week, held under the auspices of the League of Arab States. The event focused on building students' skills in collaborative Arab action towards sustainable development. Over 250 participants from across the Arab region attended sessions covering sustainable development themes including climate action and green transition strategies aligned with Egypt Vision 2030, extending the Academy's sustainability practice to the wider Arab community. These themes are closely tied to SDG 12, which calls for more sustainable patterns of consumption and production.

5th Arab Sustainable Development Week on AASTMT SDG Events Page

UniGreen Final Conference — “Shaping a Sustainable Future 2024”

On 2 December 2024, AASTMT participated in the conference presenting the final results of the UniGreen project, titled "Shaping a Sustainable Future 2024." UniGreen is a climate change competition and training programme run by the Life Makers Foundation in partnership with AASTMT, funded by the European Union. The conference shared outcomes of student and community projects addressing sustainability challenges, extending the Academy's environmental service to civil society and community organisations. By encouraging young people to design practical solutions to environmental problems, the programme builds the awareness of responsible consumption and production that SDG 12 promotes.

UniGreen Final Conference on AASTMT News

AASTMT Students Attend the Green Peace and Sustainable Resilience Forum

On 3 December 2024, AASTMT students from the College of Language and Communication attended the Green Peace and Sustainable Resilience Forum at Future University's Faculty of Economics and Political Science. The delegation, led by Prof. Dr. Hanan Youssef and supervised by Dr. Marwa Gadallah, participated in sessions on green peace and climate policy, economic dimensions of green peace, the role of public administration and policy in climate issues, and media's role in connecting these themes, extending the Academy's sustainability awareness

to the broader academic community. The sessions highlighted the link between economic choices, consumption patterns and environmental sustainability that underpins SDG 12.



AASTMT Students at the Green Peace and Sustainable Resilience Forum on AASTMT webpage

Port Training Institute — International Programme on Green Economy and CBAM

From 17 to 20 February 2025, the Port Training Institute launched an international programme on the green economy and the EU Carbon Border Adjustment Mechanism (CBAM), delivered via live broadcast in collaboration with the University of South-Eastern Norway. The programme had 30 attendees from Yemen and Egypt, with lectures by Egyptian and Norwegian experts. It aimed to raise awareness of the expected effects of the CBAM on trade and industry, extending the Academy's sustainability services to international port and trade communities. Because the CBAM prices the carbon embedded in imported goods such as steel, cement, aluminium and fertilisers, understanding it helps exporters move towards cleaner, more resource-efficient production.

Green Economy and CBAM International Programme on AASTMT webpage

MARLOG 14: The 14th International Conference on Maritime Transport and Logistics

From 23 to 25 February 2025, AASTMT organised the 14th International Maritime Transport and Logistics Conference (MARLOG 14) at the Hilton Green Plaza Hotel, Alexandria, under the theme “Artificial Intelligence Implementations: Towards Shaping the Future of the Digital World.” The conference featured eight academic tracks, including AI in Maritime Environmental Sustainability and AI in Supply Chain Logistics Management. Academic partners included the University of Genoa, Staffordshire University and the International Transport and Logistics College (Poland), with PIANC as scientific partner and the Suez Canal Economic Zone as cooperating partner. The conference extended AASTMT’s sustainability practice to the international maritime community through knowledge exchange on carbon footprint reduction, green port operations and sustainable shipping.

MARLOG 14 Conference on Maritime Transport and Logistics

Upcoming Goals

Strengthening Circular Economy Practices Across All Campuses

AASTMT aims to expand circular economy models by increasing recycling rates, reducing waste generation at the source, and integrating sustainable materials into campus operations. This will include improved waste segregation, digital tracking of waste streams, and partnerships with industry to convert waste into value-added products. The goal is to create a "zero-waste campus culture" where students, faculty, and staff actively participate in responsible resource use.

Advancing Sustainable Industrial and Research Innovation

AASTMT will continue to invest in research, innovation, and training programs that support eco-efficient production, greener technologies, and responsible industrial practices. New labs, living labs, and applied research projects will focus on waste-to-resource solutions, sustainable manufacturing, and green engineering. Through these initiatives, the Academy seeks to empower students and researchers to design scalable solutions that address national and regional sustainability challenges.

Enhancing Capacity Building and Community Engagement in Sustainable Consumption

AASTMT plans to broaden its sustainability outreach by developing targeted training programs, workshops, and community partnerships that promote responsible consumption and environmental awareness. This includes delivering specialized training on waste management, sustainable consumption behavior, food waste reduction, and eco-friendly lifestyles. The goal is to extend the impact of SDG 12 beyond campus boundaries and build sustainability competencies among youth, professionals, and local communities.