

12.2.6 Policy for Minimization of Disposable Items

2022-2024

AASTMT's Consumption and Recycling Policy underscores the university's commitment to reducing disposable item usage and fostering sustainable practices across its campuses. Rooted in principles of waste reduction and resource conservation, the policy emphasizes minimizing single-use materials by promoting reusable and eco-friendly alternatives. This approach cultivates a culture of sustainability among students, staff, and faculty, aligning AASTMT's operations with global environmental standards. Beyond internal practices, AASTMT extends these sustainability efforts to subcontractors and vendors, requiring them to adhere to the same consumption and recycling policies. By holding external partners accountable to its environmental standards, AASTMT establishes a unified and collaborative approach to waste management, reinforcing its leadership in sustainability and ensuring resource conservation for future generations. The following policies are indicating the main role AASTMT in reducing the amount of disposal items, it indicated at point number 2 under title scope, moreover, point number three under title "aims of the policy", and Disposal under point number 4.

CONSUMPTION AND RECYCLING POLICY

1. Introduction

AASTMT recognizes the growing global challenges arising from the excessive pressure on natural resources, escalating greenhouse gas emissions, rising sea levels, pollution, and inefficient waste management. These environmental issues threaten both present and future generations, underscoring the urgent need for responsible consumption and effective recycling practices. In alignment with its Environmental Change and Social Responsibility Policy, AASTMT is committed to advancing the Sustainable Development Goals by promoting a culture of sustainability across all its campuses and operations. The Consumption and Recycling Policy reflects this commitment by emphasizing waste reduction, resource efficiency, and responsible material use.

Through this policy, AASTMT aims to minimize environmental impact by prioritizing waste prevention, reusing materials whenever possible, and ensuring proper recycling and disposal in compliance with environmental regulations. By fostering awareness and sustainable habits within its community, the University seeks to create a cleaner, safer, and more resilient environment for future generations.

2. Scope

This policy applies to all AASTMT employees, students, and contractors who are involved in handling, managing, or storing any form of waste, including hazardous and non-hazardous materials. It establishes the framework for ensuring that all waste management activities prioritize recycling, reuse, and responsible disposal in line with the university's sustainability objectives.

Recycling must be integrated at every stage of the waste management process—beginning with proper segregation and collection, followed by safe processing and reuse wherever feasible. A designated responsible person or unit shall oversee the recycling and disposal of materials to ensure compliance with environmental standards and the adoption of the most sustainable methods available.

By embedding recycling practices into daily operations, this policy aims to minimize environmental impact, promote resource efficiency, and support AASTMT's broader commitment to sustainable development and environmental stewardship.

3. Aims of the Policy

The AASTMT policy considers end-of-life disposal costs and environmental impacts when making acquisition decisions involving the construction of new or renovated facilities.

AASTMT receives the 'waste order' of Prevention, reuse, reusing, and other recuperation and removal. AASTMT executes cycles, methods, and activities that guarantee consistency with ecological enactment and best practice, to lessen the general waste produced and forestall waste creation at every possible opportunity. Moreover, AASTMT is committed to measuring and weighing the amount of waste generated to track the waste and to find the best methods to reduce or recycle it.

4. Procedures

The Waste Treatment Progressive System and Stages Incorporates:

Prevention

- Utilizing less material in the plan; keeping items for more; utilizing less unsafe material.
- Reduce landfill waste and boost the usage of reusable, biodegradable, and recyclable materials.
- Promote awareness and training programs to encourage responsible consumption and waste minimization across all departments.

RE-USE

- Getting ready for re-use; cleaning; fixing, restoring.
- Reduce the usage of single-use packaging. Reducing single-use packaging such as coffee cups and increasing the usage of reusable packaging

Recycle

- Transforming waste disposal into another substance or item, including fertilizing the soil.
- Anaerobic assimilation – transformation to biogas for power age; burning with energy recuperation.

- Establish accessible recycling stations across campus and ensure regular collection and monitoring of recyclable materials.

Disposal

- Reduce the disposal of items and send them by specialized to landfill to bury the hazardous materials.
- Tracking the disposal items through a third party which evaluates the amount and the cost of the disposal items.
- Ensure all disposal methods comply with environmental laws and safety standards to minimize ecological and health risks.

Ethical Sourcing of Food and Supplies

AASTMT is seeking to reduce food waste as much as we can through using food preservation methods and vermicomposting practices. The university is committed to delivering healthy food for all parties in the university including food on Campus, Residences, and employees whether vegetarian or others. AASTMT makes sure that the food is available at each level to guarantee healthy food for AASTMT's stakeholders. However, food waste is still a problem for AASTMT. Therefore, AASTMT is applying the following procedures to use the waste of food in an appropriate way:

- a. Develop a monitoring system for food donations by using food waste.
- b. Most of the food waste produced is recorded and weighed to be sent to a device that produces bio-fertilizer for the green areas.
- c. Some of the waste of food is used to feed the animals like (dogs, and cats,

5. Policy Statement

The AASTMT seeks to implement ethical and sustainable practices on all of its campuses. Therefore, the AASTMT has taken crucial measures to implement these practices, such as ecological practices and corporate social responsibility. Through the exchange of information within the Academy's supply chain, these food ethics and practices enable AASTMT to ensure the transparency of information about all suppliers.

- **Trusted Suppliers**

To accomplish supply chain transparency, one of the primary goals of AASTMT is to identify the most reliable and reputable partners who share the same ethical practices, objectives, and data. To accomplish ethical and sustainable practices, the first step is to identify the most suitable suppliers.

- **Secure Relationships**

The interaction with suppliers is the second step to keep secure relationships between partners and to reduce the risk. AASTMT is seeking to build a platform and application to increase communication and share important information. That would give the suppliers and partners access to the internal systems they need based on their roles within the ecosystem, sustainability practices, and the food ethics of AASTMT.

- **Tracing the Food Supplies**

Through utilizing new technologies such as block chain technology, AASTMT plays a crucial role in facilitating the monitoring and tracing of the origin of food. It allows the AASTMT to trace the origin of food and ensure its safe delivery to campuses.

- **Evaluation of the Process**

AASTMT is monitoring the overall processes between its partners to guarantee healthy and sustainable food for students, staff, and Residents. Based on this monitoring, errors must be fixed, and corrective action must be taken.

AASTMT guarantees that we are conforming to guidelines, enactment, and best practices to limit the danger of prompt and future contamination or mischief to wellbeing when completing operational exercises.

6. Actions

- A proposition to build a Waste Management Centre throughout all AASTMT campuses to oversee every aspect of waste management within the Academy, and to recycle all type of materials generated.
- AASTMT is about to build a packaging lab, this lab is aiming to act as a hub providing packaging services consultancy for Egyptian and research on the field of packaging supply chain. The materials of this lab will be extracted from cartoon and plastic waste from the AASTMT campus to produce packaging prototype designs.
- AASTMT has halted the utilization of 'single use' plastics nearby utilizing a blend of elective materials and the suspension of deals of plastic filtered water nearby.
- AASTMT perceives the unfavorable effect of plastic waste, from creation through to removal. Plastic contamination can destructively affect the marine climate, and the College is looking to diminish plastic use and wastage nearby. The accompanying activities have been received to advance this point with staff and understudies:
- Single-use plastics in catering (food bundling, dispensable coffee cups, cutlery) have been supplanted with compostable catering supplies in all College food outlets, to lessen plastic waste nearby.
- AASTMT intends to keep on diminishing waste by investigating new items and administrations which will help with accomplishing decreased plastics utilization and waste.
- AASTMT will consider the hazardous materials that can be hurtful to the well-being or the climate. It incorporates irresistible organic/clinical waste, synthetics, solvents, pesticides, glaring light cylinders, refrigeration hardware containing ozone, non-eatable oils, batteries, asbestos, and paints. AASTMT will have an agreement with a third party to landfill these materials in a landfill area.
- The AASTMT will oversee, so far as is sensibly practicable, all dangerous waste exercises fall under its influence in a way, for example, to limit the mischief to human wellbeing or the climate.

- AASTMT will create and impart systems to empower workers to follow their “obligation of care” for the administration of risky wastes and screen these methods to guarantee consistency.
- AASTMT will launch awareness and training programs for students, staff, and contractors to enhance understanding of sustainable waste management, recycling processes, and the safe handling of hazardous materials.
- AASTMT will implement a digital waste tracking and reporting system to monitor waste generation, recycling rates, and disposal activities across all campuses, ensuring transparency, accountability, and continuous improvement in sustainability performance.
- AASTMT will integrate Artificial Intelligence (AI) technologies into its waste management systems to optimize waste sorting, monitor recycling efficiency, and predict waste generation patterns for smarter and more sustainable decision-making.

7. Objectives

Waste ought to be forestalled or limited at every possible opportunity. AASTMT empowers staff, Students, and employers to limit plastic and cartoon waste, in addition to increasing the awareness about the method to minimize disposable items.

8. Review Program

Document Control	
Policy title:	Consumption and Recycling Policy
Date created:	May 2019
Approving body:	SDG workforce committee
Version:	5
Last review date	2025
Next review date:	2027
Policy owner:	<ul style="list-style-type: none"> • Material Affairs and Logistics department, • Facilities, Maintenance department, • Nutrition Affairs Management
Lead contact:	<ul style="list-style-type: none"> • Head of Facilities and Logistics Department, • Head of the Facilities at the Facilities and Maintenance Department, • Director of the Department of Nutrition Affairs
Approval Signature 	Dean of Scientific Research and Innovation

You can read our [Consumption and Recycling Policy](#) on AASTMT website.

More activities are applied and practiced in the AASTMT.

AASTMT Hosts High-Level Workshop on Waste Management with Ministerial and International Participation

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) hosted a high-level workshop on waste management at its Alexandria Campus, in partnership with the Alexandria Governorate, Nahdet Misr Company, and the German Retech Foundation, under the patronage of Egypt's Ministry of Environment and the Waste Management Regulatory Authority. The event brought together ministers, governors, and international experts, including Dr. Manal Awad, Minister of Local Development, and Dr. Yasmine Fouad, Minister of Environment, along with representatives from Egyptian and German institutions. Opening the workshop, Dr. Ismail Abdel Ghaffar Ismail Farag, President of AASTMT, emphasized the importance of sustainable waste management for environmental protection and resource productivity. The discussions focused on innovative approaches and international best practices in waste reduction, recycling, reuse, and safe disposal, reinforcing AASTMT's role as a leading platform for collaboration in environmental sustainability.



[*AASTMT Organizes International Waste Management Workshop*](#) on facebook

AASTMT Alexandria Students Innovate Smart Waste Compactor and Multi-Task Agricultural Robot

Students from the Arab Academy for Science, Technology and Maritime Transport (AASTMT), Alexandria Campus have showcased groundbreaking graduation projects that mark a significant leap in environmental innovation, smart agriculture, and clean energy. Among the highlights are two pioneering designs: the "Smart Solar Waste Compactor," a fully solar-

powered device that compresses plastic waste and promotes circular economy practices by allowing users to redeem the compressed waste for monetary value, and the “LiDAR Navigation IoT Solar Agribot,” a solar-powered, AI-driven agricultural robot capable of irrigation, planting, harvesting, and pest control with precision. Supported by AASTMT and entrepreneur Ahmed Abou Hashima, these projects exemplify the Academy’s commitment to empowering students to transform theoretical knowledge into practical, sustainable solutions that advance innovation and serve the community.



AASTMT Students Develop Smart Waste and Agri-Tech Solutions

AASTMT Signs Cooperation Protocol with the General Authority for Healthcare Accreditation and Regulation to Develop Qualified Medical Professionals

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) has signed a cooperation protocol with the General Authority for Healthcare Accreditation and Regulation (GAHAR) to train and graduate qualified medical professionals capable of preparing healthcare facilities for national accreditation. The agreement, signed at AASTMT’s Abu Qir Main Campus by Dr. Ismail Abdel Ghaffar Ismail Farag, President of AASTMT, and Dr. Ashraf Ismail, President of GAHAR, aims to enhance the quality and safety of healthcare services in alignment with Egypt’s Vision 2030. Through this partnership, AASTMT will provide comprehensive theoretical and practical training programs to build the capacity of healthcare workers, enabling them to apply international standards of accreditation and quality management and obtain the Egyptian Certified Accreditation Professional (EGYCAP) qualification.



[AASTMT Partners with Healthcare Authority for Medical Training](#)

Medical waste disposal procedures within the Arab Academy

The College of Pharmacy at AASTMT Is Reinforcing Its Commitment to Environmental Safety with a Waste Disposal Initiative in its Laboratories. Liquid Chemical Waste Is Collected in Designated Bottles Within Each Lab and Then Transferred to Larger Containers, While Broken Glass Is Stored in Separate Containers for Safe Disposal. All Waste Is Ultimately Handed Over to Nahdet Misr Company, A Certified Provider, To Ensure Environmentally Responsible Disposal. This Initiative Highlights AASTMT's Dedication to Maintaining a Safe and Eco-Friendly Campus Environment.



[Medical waste disposal procedures within the Arab Academy](#) on AASTMT website

AASTMT Abu Qir Campus Hosts Seminar on Recycling Rice Straw into MDF Eco-Boards for Sustainable Urban Development

As part of its efforts to provide students with diverse scientific and cultural experiences, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) – College of Engineering and Technology, Abu Qir Campus, under the leadership of Prof. Akram Suleiman El-Selmy, and through the Institute of Basic and Applied Sciences headed by Prof. Nasser El-Maghraby, organized a scientific seminar titled “Recycling of Straw Wastes to MDF ECO-Boards: Towards an Urban Environment.” The lecture was delivered by Eng. Walid Shafik, Head of Operations at WOTECH Egypt, a company established in partnership with Egypt’s petroleum sector to produce MDF wood panels from rice straw. The session highlighted modern methods for recycling agricultural waste, its environmental and economic benefits, and its role in supporting sustainable development. Students engaged in interactive discussions, gaining valuable insights into the latest technologies transforming agricultural residues into eco-friendly materials, reaffirming AASTMT’s commitment to promoting environmental awareness and innovation among its students.



[AASTMT Seminar on Recycling Agricultural Waste](#) on facebook