Arab Academy for Science, Technology & Maritime Transport

Arab Academy
for Science, Technology & Maritime Transport



Report 2024 / 2025

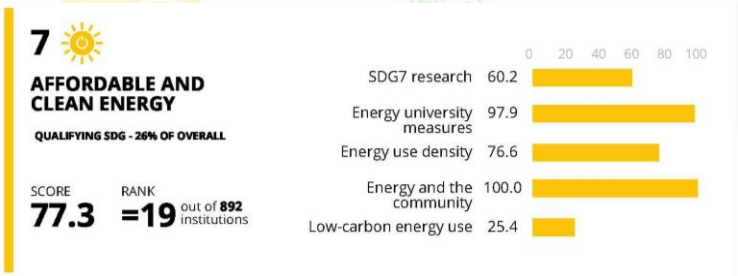
SDG 7

Our Aim in 2024 -2025

In 2024/2025, AASTMT is committed to "Powering Green Sustainability, Cleaning the Future" through an integrated approach that involves seven main pillars. This approach promotes smart energy monitoring, energy conservation and efficiency, renewable energy employment, and carbon reduction. This is further supported by innovative academic programs and laboratory facilities, research and funded projects, and strategic agreements and initiatives. Together, these pillars aim to accelerate transition toward a cleaner, energy-efficient, and sustainable future, reinforcing AASTMT's contribution to SDG 7.

THE Impact Ranking Scores 2023-2024

THE IMPACT RANKINGS



SDG 7

AFFORDABLE AND CLEAN ENERGY



Powering Green Sustainability, Cleaning the Future

"We Pledge to Advance Clean Energy, Enhance Efficiency, Foster Innovation, and Reduce Carbon Footprint for a Sustainable, Greener Future"



Key Milestones in 2024-2025

In accordance with *Green Energy and Energy Management Policy*, AASTMT Energy Management Committee puts an integrated seven-pillar plan towards improving energy efficiency and conservation, increasing renewable energy utilization, reducing carbon footprint, and advancing sustainable energy practices across its different branches and campuses during. The effectiveness of *AASTMT 2024/2025 Plan towards Clean Sustainable Energy*, is assessed using *AASTMT 2024/2025 Insights* in different AASTMT branches as discussed in *AASTMT 2024/2025 Energy Progress Report*, to confirm its goal of reflecting AASTMT's integrated approach to powering green sustainability and cleaning the future.

Green Energy and Energy Management Policy on AASTMT webpage
AASTMT Annual Energy Progress Reports on AASTMT webpage

I. 2024/2025 AASTMT Measures towards Affordable and Clean Energy

In 2024/2025, AASTMT has put a seven-pillar plan as discussed in *AASTMT 2024/2025 Plan towards Clean Sustainable Energy* towards green sustainable energy. This can be summarized as follows;

1. Smart Monitoring and Energy Management: AASTMT establish effective energy smart monitoring and data-driven plans (ranking of loads guides lighting, HVAC and utility actions) as well as assessment mechanisms to track electricity consumption, perform energy audits and analyze performance indicators. This supports identification of energy-saving opportunities, informed decisions, rationalizing energy consumption and realizing optimized energy management across AASTMT campuses.

2. Higher Energy Efficiency and Conservation: AASTMT takes consistent measures that are continuously carried out, besides infrastructure upgrading and renovation plans that are updated yearly. This is reflected in reduction in the energy consumption among all its branches. Check the *AASTMT 2024/2025 Renovation and Upgrading Plan* which discusses renovations and upgrading procedures of different AASTMT Alexandria Campuses in in 2025 along with photos of upgrading 2024/2025.

3. Renewable Energy Deployment: To support expansion in renewables employment within its campuses, AASTMT takes consistent measures that are continuously carried out, besides yearly updated ones. This is reflected in the increase of low-carbon sources' share in AASTMT total energy supply. This includes:

- **Continuous maintenance, routine cleaning and improvements** in the existing solar installations, to maintain and even improve their output power, thus enhancing its energy share in AASTMT consumption. This includes regular annual measures as follows,
- **Expanding renewable infrastructure** among different AASTMT campuses:
- **Expanding renewable infrastructure** among different AASTMT campuses:
    - **2kW Vertical Axis Wind Turbine (VAWT):** The Renewable Energy Unit is planning to further expand AASTMT's renewable energy infrastructure through the installation of this wind turbine, funded by an internal AASTMT research grant and to be integrated with the existing PV Plant in Abukir Campus.

    Energy Research Unit
    - A proposal to establish a solar power plant and two electric vehicle charging units at Alamein Campus

    2024/2025 Study and Proposal for establishing PV station and EV charging units in Alamein Branch

4. Carbon Reduction: AASTMT has put a *Climate Action Plan 2025-2030*, towards reducing Scope 1, 2 and 3 emissions and assessing Carbon Footprint based on GHG Protocol and ISO 14064-1.

5. Innovative Programs and Lab Facilities: AASTMT is committed to strengthen practical education, technical training, and students' projects involving innovative clean-energy programs and laboratory facilities. In this regard, the following is achieved in 2025.

- Continuous improvement to related programs and trainings offered by AASTMT different entities to students and industry as detailed in the link below.

Energy-related Innovative Programs and Trainings by AASTMT

- Investments in Energy-related LABs intalled in AASTMT different campuses to guarantee continuous maintenance and improvements, thus assisting in consultancy, research and trainings.
- Encourage renewable energy and decarbonization-related educational events and activities (seminars, workshops, visits and trainings) in 2024/2025.

Energy-related Events
Energy-related Activities

- Prioritizing fields of decarbonization and clean energy in graduation projects and Industry Service Complex projects

Energy-related Graduation Projects
AAST ISC 2024/2025 projects

6. Research and Funded Projects: Advance AASTMT's research and innovation capabilities through national and international funded projects addressing clean energy, energy efficiency, and industrial decarbonization.

- Encourage Staff to Prioritize fields of decarbonization and clean energy in research 2024/2025.

Scientific Research & Innovation-Alexandria | AASTMT

- Strengthening AASTMT's Renewable Energy and Sustainable Development (RESD)

RESD Issues

- Prioritize renewable energy and decarbonization research projects

Renewable Energy Research Projects

- Start preparing for the implementation of the pilots of Interreg NEXT MED projects (RESt4GREEN and GREENOLIVE)

RESt4GREEN and *GREENOLIVE*

- As per NORPART- AI-ESI Project outcomes, postgraduate students are engaged to conduct AI studies in the fields of renewable energy and decarbonization, by offering opportunities of Fully funded MSc and PhD degrees and mobility in University of Stavanger.

Fully funded MSc and Phd degree-NORPART AI-ESI for AASTMT postgraduate students
Fully funded MSc Mobility- NORPART AI-ESI for AASTMT postgraduate students

7. Agreements and Initiatives: Expand AASTMT's strategic partnerships and institutional initiatives to accelerate the clean-energy transition via cooperation with industry, academia, governmental institutions, and international organizations.

- Put Government Partnership towards renewable energy and climate change measures a priority, especially with Ministries of Environment, Local Development and Finance.

Meetings with ministries of Environment and Local Development
Meetings with ministry of Finance

- Activate partnerships and MOUs signed or renewed with industry, in fields of consultancy, trainings and technical cooperation within AAST Industry Advisory Council annual sessions and services offered by AASTMT Productivity and Quality Institute (PQI) and Industry Service Complex (ISC)

Industry Advisory Counsil Session 2025
AASTMT Industrial Service Complex
AASTMT Power and Quality Institute

- Encourage renewable energy and decarbonization-related campaigns to promote renewable energy and climate action importance beyond AASTM walls. Watch the awareness video of AASTMT initiative campaign “Our Energy, Our Responsibility”: *Our Energy, Our Responsibility Video*

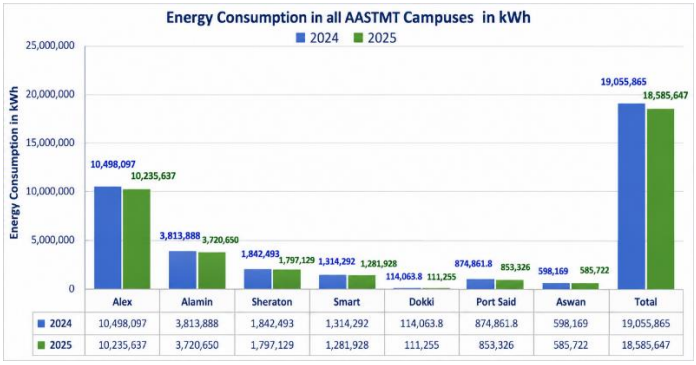
Energy-related Events
Energy-related Activities

II. Energy Consumption and Emissions Insights

To assess AASTMT's the previously discussed 2024/2025 measures and verify their effectiveness on energy consumption and carbon emission, detailed AASTMT energy and carbon insights are given in *AASTMT 2024/2025 Insights*

Energy Consumption

Measures, supporting AASTMT's commitment to improving energy efficiency and reducing electricity consumption across different AASTMT branches, are reflected in the reduction in electricity consumption of each branch, as shown in Figure 1, with total consumption reduction by around 2.47%, from 19,055,865 kWh in 2024 to 18,585,647 kWh in 2025.



	Alex	Alamin	Sheraton	Smart	Dokki	Port Said	Aswan	Total
2024	10,498,097	3,813,888	1,842,493	1,314,292	114,063.8	874,861.8	598,169	19,055,865
2025	10,235,637	3,720,650	1,797,129	1,281,928	111,255	853,326	585,722	18,585,647

Figure 1. Comparison between 2024 and 2025 energy consumption in all AASTMT branches

Renewable Energy Share Growth

According to the New and Renewable Energy Authority (NREA), Egypt's total installed renewable energy capacity reached approximately 8.6 GW by the end of 2024/2025, compared with approximately 6.8 GW in 2023/2024, reflecting an increase of around 26% [NREA 2025].
Renewable Energy Share Growth

Since AASTMT's electricity consumption is supplied mainly by the Egyptian national grid, this growth is reflected on AASTMT energy usage from low carbon sources, as shown in Figure 2, where the average renewable energy share in supplying AASTMT total energy demand from national grid reached almost 26 % in 2025 which is more than the 25.1% in 2024. Besides renewable energy contributed in AASTMT from national grid, energy from solar energy installations across different AASTMT campuses buildings, has increased from 273.6GJ (75989kWh) in 2024 to 286.7GJ (79632kWh) in 2025 i.e. an increase of almost 4.78% from 2024 to 2025. This results in an increase of almost 1.08% in AASTMT total energy usage from

low carbon energy sources (from national grid and solar installations) in 2025 compared to that in 2024.

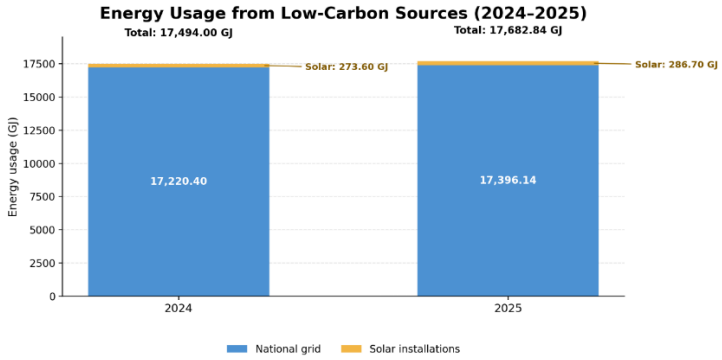


Figure 2. AASTMT Energy usage from low carbon sources in 2024 and 2025

Finally, Table 1 summarizes entire AAST energy supply from national grid and from AASTMT total solar installations, in kWh/m^2 and GJ/m^2 from 2024-2025 and the relative energy density in GJ/m^2. The latter reached about 0.09135GJ/m^2 in 2025 which is less than the 0.09363GJ/m^2 in 2024 by almost 2.43%, mirroring AASTMT continuous efforts towards electrical energy conservation and energy efficiency improvement, besides the increase in total energy consumption from low carbon sources by almost 1.08%, reflecting AASST support to transition to clean energy.

Table 1. Energy Density in GJ/m^2 for the entire AAST in 2024 - 2025

Year	Total Floor Area (m^2)	Total energy (kWh) (from Grid + AAST solar infrastructure)	Total energy (GJ) (from Grid + AASTMT solar infrastructure)	Density (GJ/m^2)	Energy from low carbon sources (GJ) (from national grid and solar infrastructure)
2024	735569.7	19,131,865	68874.714	0.09363	17494
2025	735569.7	18,665,279	67195	0.09135	17682.84

Carbon Footprint

Under the direction of the President of AASTMT, a multidisciplinary committee coordinated by the Research and Innovation Center assessed the carbon footprint of four AASTMT branches (Abu Qir, Misr El-Gedida, Smart Village and South Valley) for the year 2024/2025, following the GHG Protocol and ISO 140641 as given by *AASTMT Carbon Footprint Report 2024/2025* . It covers Scope 1 (stationary and mobile combustion and fugitive emissions), Scope 2 (purchased energy, including outsourced cooling) and a wider set of Scope 3 sources: purchased goods and services, capital goods, water and wastewater, fertilizers, staff and student commuting, waste, business travel and leased assets.
Carbon Footprint

Compared to 2019–2024 figures which covered only AASTMT Alexandria branch campuses; the 2024–2025 figures cover four AASTMT branches and a wider set of Scope 3 sources, including commuting, business travel, food and other purchased goods and services. The breakdown by campus is given by Table 2 and Figure 3. It is worth noting that Scope 3 makes up 65% of the footprint of the four campuses, Scope 2 up to 27% and Scope 1 up to 8%. Emissions are 1.73 t CO_2e per student, below the global average of 2.67 t CO_2e per student cited in the report. The main sources are commuting, the Abu Qir vehicle fleet, outsourced cooling at Smart Village, food at Abu Qir and refrigerant leakage at South Valley.

Table 2. Breakdown of Carbon Footprint Report 2024/2025 by campus

Campus	Scope 1 (t.CO_2e)	Scope 2 (t.CO_2e)	Scope 3 (t.CO_2e)	Total (t.CO_2e)
Abu Qir	2,470	4,361	10,767	17,598
Misr El-Gedida	177	1,391	8,859	10,427
Smart Village	88.9	4,380	3,695	8,164
South Valley	119.2	307.8	1,637	2,064
Total, four campuses	2,855	10,440	24,958	38,253

Community Engagement

AASTMT put a lot of efforts towards sustainable community development in 2024/2025. This is reflected in its participation in related research projects and grants, besides its national, regional and international collaborations towards green sustainable energy. Moreover, the university offers paid and free training and consultancy services to government and industry as well as support to startups and innovation.

I. Research Projects and Grants

AASTMT has participated in a number of related Funded Projects within the years 2024 and 2025.

Research Projects on AASTMT webpage

Project Name	Start date	End Date	Link
RESt4GREEN Energy efficiency, Renewable Energy Sources and smarT energy conservation for improved quality of life and a GREENer Mediterranean	16/07/2025	15/7/2028	*RESt4GREEN*
GREENOLIVE Solar-driven Decarbonization for Mediterranean Industries	01/09/2025	31/08/2028	*GREENOLIVE*
PRO-Green-LABs Promoting Integrated Green Competences for Sustainable Development in Architectural Education through Experiential Lab-based, Active Learning	April 2024	March 2026	*Pro-GREEN-LABs*
RURALITIES Climate smart, ecosystem-enhancing and knowledge-based rural expertise and training centres	01/10/ 2023	30/10/2026	*RURALITIES*
AI-ESI Strengthening education and research in Applied Informatics for Energy System Integration	01/01/2022	31/12/2026	*AI-ESI Project*
GreenMED Green Shipping Pathways Towards a Clean Energy Transition in the Mediterranean	01/10/2023	31/12/2025	*GreenMED Project*

Moreover, in 2024/2025, pilots of Interreg NEXT MED projects (RESt4GREEN and GREENOLIVE) which significantly impact industry, research are innovation, are prepared be implemented in 2026

RESt4GREEN and GREENOLIVE

II. Paid Services by AASTMT

AASTMT offers Paid training and consultancy services through AASTMT different entities as follows;
TRAINING - Affordable and Clean Energy on AASTMT webpage.

Productivity and Quality Institute (POI)

AASTMT Power and Quality Institute

Energy and Environmental Management Courses as well as Consultancy service in the form of ISO 50001 Energy management Systems Consultancy Service (EnMS) to a number of corporates
Energy and Environmental Management Training Courses-AASTMT PQI
ISO 50001 Energy management Systems Consultancy Service-AASTMT PQI

Oil and Gas Certification (OPITO)

OPITO certification is internationally recognized and vital for professionals in oil, gas, maritime, and renewable energy industries. The Arab Academy for Science, Technology and Maritime Transport (AASTMT), College of Engineering and Technology (CET) is the only center in Egypt and North Africa offering this prestigious qualification.
OPITO Certification

Industry Service Complex (ISC)

AASTMT ISC is a specialized entity established in 2005 to bridge academia and industry. It fosters long-term partnerships that drive technology transfer, applied research, and workforce development. Through advanced industrial solutions, customized professional training programs, and accredited technical education that meet international standards. ISC supports Egypt's industrial sector, enhances local capabilities, and promotes innovation - ultimately creating jobs, reducing reliance on imports, and contributing to sustainable economic development.
AASTMT Industrial Service Complex
ISC Agreement 2025
ISC Electrical Maintenance Training Courses 2025

Energy Research Unit

AASTMT IOSS is an entity, related to AASTMT energy research unit, that provides many services in the field of innovative renewable energy, all under one roof. Its goal is to provide industry and startups with technical assistance, consulting and networking opportunities required to run a successful and innovative renewable energy project in Egypt.

Energy Research Unit

III. Free Services by AASTMT Energy Research Unit

Different AAST institutes offered free trainings, workshops and seminars to industry and graduate students. Examples of 2024/2025 Free services offered by AASTMT include;

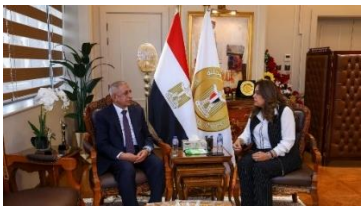
9/10/2025 From Data to Decarbonization: PyPSA-Earth Workshop	A hands-on workshop trained students and young researchers in energy-system modelling, grid simulation and scenario analysis to support decarbonization and energy transition planning. *From Data to Decarbonization: PyPSA-Earth*	
1/8/2025 Advancing Green Hydrogen Technologies and Applications Workshop	Port Said Campus hosted an EU-funded GREEN Project workshop addressing green hydrogen technologies, higher education, technical research and academia–industry collaboration. *Advancing Green Hydrogen Technologies and Applications*	
June 2025 Solar Energy Training for Sudanese Students	A solar energy training was organized by AASTMT ISC in collaboration with Caritas Egypt for Refugee trainees from Sudan in the field of solar energy. *Solar Energy Training for Sudanese Students*	
2/12/2024 Egypt Energy Transition Workshop	AASTMT organized a workshop titled: "Towards Egypt's Energy Vision 2030: Egypt's Just Energy Transition: Decarbonization, Electrification, Education, and Access" which was attended a number of faculty members from Egyptian colleges and universities, in addition to industry figures, governmental and advisory bodies. *Egypt Energy Transition Workshop*	

IV. AASTMT Participation locally, Regionally, Nationally and Globally

In 2024/2025, AASTMT participated nationally, regionally and internationally through joint co-operations, summits, conferences and events to develop policies, agreements and plans towards energy sustainability and green environment.

AASTMT Cooperation with the Government

With the necessity of being effectively engaging and participating in EGYPT Ultimate Goal of Sustained Transition to Green Energy, AASTMT is keen on the continuous cooperation with different governmental entities in the fields of energy and the environment. Such partnership mirrors AAST key role in supporting community service in such field and sharing its academic knowledge and research capabilities to develop policies and practical solutions that benefit society, such as promoting renewable energy use, improving energy efficiency, and encouraging environmental sustainability. Examples of such cooperation are shown below:

Participation	Overview	
(14 Oct. 2025) Delegation from Nucleur power plants Authority	(AASTMT) received a high-level delegation from the Egyptian Nuclear Power Plants Authority at its headquarters in Abu Qir to discuss ways of future joint cooperation. *Delegation from Nuclear Power Plants Authority at AAST*	
(8 Oct. 2025) Meeting with Minister of Local Development and Acting Minister of Environment.	A meeting between AASTMT President – Minister of Local Development and Acting Minister of Environment. The meeting reviewed future cooperation and plans in waste management, renewable energy, climate change mitigation, scientific research and capacity building. *Meeting with Ministries of Local Development and Environment*	
(26 Oct. 2024) Bilateral cooperation between Egyptian Ministry of Environment and AAST	The Minister of Environment meets AAST President to discuss joint cooperation and future plans to support environmental initiatives and enhance integration between research and sustainable development. *Cooperation with Egyptian Ministry of Environment*	

Moreover, in 2024/2025 AASTMT participates in joint co-operations, summits, conferences, workshops and events at the national, regional and international side to develop policies, agreements and plans towards energy sustainability and green environment. Examples of such participation are shown below

Participation	Overview	
(27-28 Nov. 2024) UniGreen conference "Shaping a Sustainable Future 2024"	AASTMT participated in the activities of this international scientific conference to present the final results of the UniGreen project that was held during at the Ramses Hilton Hotel, organized by the Academy in cooperation with the Life Makers Foundation. *AASTMT in UniGreen Conference*	

(24-27 Nov. 2024) 5th Edition of Arab Sustainable Development Week	AASTMT participated in the 5th Edition of Arab Sustainable Development Week showcasing its commitment to regional collaboration and climate resilience. The event's theme was "Sustainable Solutions for a Better Future – Resilience and Adaptability in an Evolving Arab World" *AASTMT in Arab Sustainable Week*	
(18 Nov. 2024) Climate Summit in Baku, Azerbaijan	Dean of AASTMT Port Training Institute and Maritime Research and Consultation Center participated at the Climate Summit in Baku, Azerbaijan, delivering a keynote on education and climate change. His participation highlighted AASTMT's leadership in sustainable development & international cooperation. *AASTMT participation in the Climate Summit*	

V. Support to Startups by AASTMT Entrepreneurship Center

AASTMT Entrepreneurship Center is keen on supporting startups in the field of green economy, energy management, industry efficiency and sustainability, through trainings and spin-offs.

Entrepreneurship Center on AASTMT webpage

Spin-offs	Preview	Logo	Link
Photon Smart	A fabless IoT manufacturer that specializes in Smart Homes enabling them to be accessible, user-friendly and affordable enough to become mainstream as well as enhancing energy efficiency in Homes.		*Photo Smart*
NABTAX	Transforms unused urban spaces — rooftops and hangars — into fully connected smart farms, powered by AI + IoT to support sustainability and efficiency. Sensors monitor every growth factor — light, humidity, water, and nutrients — and the AI platform automatically adjusts conditions for maximum yield and minimum waste.	NABTAX INNOVATION IN AGRICULTURAL TECHNOLOGY	*NABTAX*
P-Vita	For Green Intelligence Technology, Patented AI and IoT-driven bioconversion technology turning algae and agricultural waste into high-value natural raw materials, reducing wastes and enhancing sustainability	P-Vita	*P-Vita*
Schoolz	An AI-powered platform that revolutionizes school and corporate transportation - making it safer, smarter, and sustainable, thus optimizing routes in real time, providing live safety tracking, and cutting carbon emissions by 600K+ tonnes, all while reducing transport costs by 30%	schoolz	*Schoolz*

Agrona	A startup company manufacturing particleboard wood out of agri-residues without cutting a single tree; fighting climate change and unleashing the economic potentials of the rural societies.	Agrona Sustainable Materials	*Agrona*
Viridi	Tackles the problem of inadequate and inflexible EV charging infrastructure by introducing portable EV chargers with high power capacity, adjustable amperage, and wide compatibility, ensuring versatile and efficient charging for various EV models. This supports the EV market, thus contributing in green energy efforts emissions reduction	VIRIDI	*Viridi*
Techno Masters	An innovative startup working to transform the smart home experience by making advanced home automation more affordable, accessible, and tailored to the needs of the mass market, reducing consumption and enhancing sustainability	Techno Masters	*EC-AASTMT Page*
Tatbeek	Hardware and platform to measure and enhance manufacturers' productivity using latest technologies including IoT, Cloud computing, data analysis, machine learning, and image processing to maximize efficiency and minimize waste.		*Tatbeek*

2024/2025 Spinoffs

VI. Support to Innovation by AASTMT Scientific Research & Innovation Centre

In light of AASTMT concentration on Environmental Impacts, Sustainability and green energy, a number of programs are implemented by this center to support energy-related research and innovation.

Scientific Research & Innovation Centre on AASTMT webpage

Energy Conservation Program

Energy Conservation Program on AASTMT webpage

Energy-related Policies & Reports

Policies & Reports on AASTMT webpage

Environmental Monitoring and Climate Change Laboratory - Scientific Research & Innovation centre

Environmental Monitoring and Climate Change Laboratory

Events

AASTMT is keen on promoting Green Energy Sustainability within and beyond university walls through organizing related symposiums and visits as well as launching related campaigns, initiatives, and competitions.

I. Visits, Symposiums and Talks

Activity	Overview	
20/12/2025 BIM (Building Information Modeling) Seminar	AASTMT organized a specialized BIM seminar at the College of Engineering and Technology, Abu Qir, in collaboration with CAD Masters and relevant engineering departments. The seminar demonstrated how digital modeling and MEP Revit enhance building energy efficiency, integrate renewable energy systems, reduce energy losses, and promote sustainable building design. *BIM Session*	
9/11/2025 PVs and E-Mobility in Egypt Dialogue	AASTMT hosted Egyptian and German experts to discuss PV technologies, battery energy storage, energy communities and electric mobility. *Photovoltaics and E-Mobility in Egypt*	
18/2/2025 **Visit** to EGYPES Exhibition – Egypt Energy show	Chemical and Petrochemical Eng. and Marine Eng. Departments organized a visit for its students to the Egypt Energy show (EGYPES) Exhibition at the Egypt International Exhibition Center in Cairo. *Visit to EGYPES Exhibition*	
10/12/2024 Nuclear energy Symposium	AASTMT's El Alamein campus hosted a symposium in collaboration with the Dabaa Nuclear Energy Agency and the Russian Cultural Center, focusing on nuclear energy cooperation and sustainability. *Nuclear Energy Symposium*	

Activities on AASTMT webpage

II. Campaigns, Initiatives and School Visits

Event	Overview
Our Energy, Our Responsibility Campaign	The Energy Research Unit, AASTMT, prepared for the awareness campaign "Our Energy, Our Responsibility", in 2025 and launched it on 22 April 2026 in alignment with Egypt Vision 2030 and the Academy's commitment to sustainability. The campaign promotes responsible energy consumption, reducing waste, and improving energy efficiency through simple daily practices. It aims to strengthen individual and institutional responsibility, encourage a culture of sustainability, support efficient use of resources for a greener future. *Our Energy, Our Responsibility Campaign* *Watch the campaign video on: Our Energy, Our Responsibility Video*

12-13/ 8/2025 Summer Camp	A two-day summer camp for high school students organized by the Electrical and Control Engineering dept. – AAST Abukir staff and students. The camp is designed to engage school students in practical, interactive STEM-activities, particularly in electrical engineering, renewable energy and industrial control.  *EE Dept. Summer Camp*
25/5/2025 BSA School Visit	BSA School Visit to Electrical and control engineering dept. – AAST abukir campus for Sparking Curiosity in Young Minds Through Electrical Engineering & Renewable Energy.   *BSA School Visit*

Events on AASTMT webpage

Conclusion

AASTMT's Energy Plan 2025 represents an integrated institutional framework for advancing sustainable energy management and supporting the university's contribution to SDG 7. Through its seven strategic pillars, the Academy combines smart monitoring, energy conservation, renewable energy utilization, carbon reduction, innovative laboratory facilities, research and funded projects, and strategic partnerships into a unified approach. The measurable reductions in electricity consumption, improvement in energy intensity, and growth in on-site solar generation demonstrate progress towards more sustainable campus operations as given by key performance indicators in Table 3. At the same time, international research projects and institutional cooperation provide opportunities to transform scientific innovation into practical clean-energy solutions. Ultimately, the plan reinforces AASTMT's pledge to Power Green Sustainability, Cleaning the Future, while supporting its long-term 2040 Goal: **Achieving a 50% reduction in carbon emissions and a 40% renewable energy share by 2040.**