

7.4.1 Local Community Outreach for Energy Efficiency

2023–2024

AASTMT is keen on encouraging local community to learn about importance of energy efficiency and clean energy. This is included in AASTMT energy-related programs and trainings as well as visits, workshops, and seminars in addition to graduation projects that serve objectives of clean sustainable energy.

First: Programs and Trainings

AASTMT has a number of programs and trainings offered by different entities to educate about clean energy as well as energy efficiency and management. This is found in the link below;

[Training Courses](#) on AASTMT webpage

1. College of Engineering and Technology

AASTMT College of Engineering and Technology offers energy related programs, courses and summer trainings to undergraduate students to educate them on renewable energy sources as well as energy efficiency and management. Also, it offers a number of energy and environmental Postgraduate Programs (Master of Science and Master of Engineering Degrees).

- **Related Postgraduate Programs**
 - **M.Eng. in Renewable Energy and Environment Engineering**
[M.Eng. in Renewable Energy and Environment Engineering](#) on AASTMT webpage
 - **M.Sc. in Renewable Energy and Environmental Engineering**
[M.Sc. in Renewable Energy and Environmental Engineering](#) on AASTMT webpage
 - **M.Sc. in Smart Control Systems for Energy Management**
[M.Sc. in Smart Control Systems for Energy Management](#) on AASTMT webpage
- **Related Undergraduates Programs and Summer Trainings**
 - “Electrical Energy Engineering Program” is an undergraduate energy – specified engineering program offered in Smart village campus where its students graduate specialized in fields of renewable energy as well as energy efficiency and management.
[Electrical Energy Engineering Program](#) on AASTMT webpage
 - “Electrical and Control Engineering Program” is an undergraduate program with one of its concentrations focus on Renewable Energy.
[Electrical and Control Engineering](#) on AASTMT webpage
 - Also, **energy-related summer trainings** are offered to undergraduates from different engineering aspects to educate them about renewable energy as well as energy efficiency and management. Examples of these summer trainings are shown in the table below.

Training	Overview
<p>Summer 2024/2025 Trainings of Electrical and Control Eng. Dept. Students</p>	<p>Summer trainings included a number of energy-related companies in Egypt with which AASTMT has agreements like 2024/2025 summer training in Siemens Energy from 13-18 Sept. Siemens Energy 2024/2025 Summer Training</p> <div data-bbox="938 255 1398 624">  <p>AASTMT EGT Academy Siemens Energy Summer Training Program 2025</p> <p>AASTMT College of Engineering and Technology Students of:</p> <ul style="list-style-type: none"> * Mechanical Engineering * Electrical and Control Engineering * Electronics and Communications Engineering * Computer Engineering <p>From 13 - 18 September 2025 in Ain Sokhna</p> </div>

2. Energy Research UNIT

The Energy Research Unit at AAST-Abukir campus offers the following Training Courses;

[TRAINING COURSES](#) on AASTMT webpage

1. Renewable Energy System
2. Solar energy
3. Practical fundamental solar energy
4. Wind Energy System
5. Energy Management and Auditing (EMA)
6. Building Management system (BMS)

And this is practically explained with the help of the 50kW solar plant station built at the roof of building G at AAST- Abukir campus.

3. AASTMT Productivity and Quality Institute (PQI)

Local and international Energy and Environmental Management Certified Training Courses are offered by PQI. These courses enhance businesses sustainability and reduces an organization's impact on the environment while improving its operating efficiency by controlling its energy consumption which helps in reducing product manufacturing.

[Energy and Environmental Management Training Courses-AASTMT PQI](#) on AASTMT webpage

Local Training Accredited Certificates	International Training Accredited Certificates
<ul style="list-style-type: none"> Understanding ISO 14001:2015 Course. Documents and Records Preparation for ISO 14001:2015 Requirements Course. 	<ul style="list-style-type: none"> ISO 14001:2015 Environmental Management Systems Auditor/Lead Auditor Course. ISO 14001:2015 Environmental Management Systems transition Course.
<ul style="list-style-type: none"> Internal Audit for ISO 14001:2015 Course. Energy Management Technology Course. 	<ul style="list-style-type: none"> ISO 50001:2011 Energy Management Systems Auditor/Lead Auditor Course.
<ul style="list-style-type: none"> Energy Management System ISO 50001 Awareness and Internal Audit Course. 	


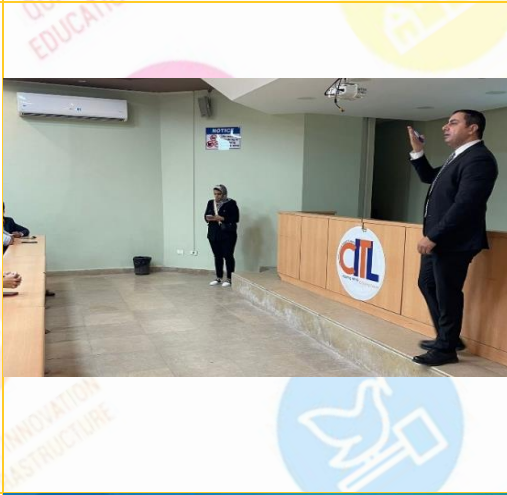
Second: Visits, Workshops and Seminars




Besides, trainings and programs offered by AASTMT in the fields of energy, AASTMT organizes a large number of visits, workshops and seminars to educate its staff, students and local community on energy efficiency and management as well as renewable energy and emerging clean technologies.

[Energy-related Activities](#) on AASTMT webpage

2023/2024 Visits, Workshops and Seminars

<p>10/12/2024</p> <p>Nuclear energy Symposium</p>	<p>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.</p> <p>Nuclear Energy Symposium</p>	
<p>2/12/2024</p> <p>Egypt Energy Transition Workshop</p>	<p>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. This workshop stems from a collaboration between the Faculty of Engineering & Technology at AASTMT and the Texas A&M University (USA), specifically the Institute of Energy at Texas A&M.</p> <p>Egypt Energy Transition Workshop</p>	
<p>27/11/2024</p> <p>Visit to Egypt Energy & Firex 2024 Exhibition</p>	<p>AASTMT Electrical and Control Eng. Dept. as well as AASTMT Mechanical Eng. Dept, organized a joint technical student Visit to Egypt Energy & Firex 2024 Exhibition.</p> <p>Visit to Egypt Energy & Firex 2024 Exhibition</p>	

<p>25-26/ 11/2024</p> <p>Siemens Energy Visit</p>	<p>AASTMT electrical and Control Eng. Dept. organized a technical trip to Siemens Energy Centre in ElAin Elsokhna. Siemens Energy Visit</p>	
<p>(21/10/2024)</p> <p>Moving towards the future: Innovations in energy” Symposium</p>	<p>AASTMT Energy and Petroleum Logistics Management Department, College of International Transport and Logistics, hosted, Dr. Walid Al-Khadrawi, an expert in the field of hydrogen energy sustainability in the oil and gas sector in Egypt, to present a scientific symposium entitled “Moving towards the future: Innovations in energy”. Innovations in energy” Symposium-2024</p>	
<p>(30/7/2024)</p> <p>Green Hydrogen Applications in the Maritime Industry Workshop</p>	<p>AASTMT Department of Marine and Platform Engineering at the College of Engineering and Technology was pleased to organize the international workshop, “Green Hydrogen Applications in the Maritime Industry”, through collaboration with the University of Genova and the Clean Hydrogen Partnership. Green Hydrogen Workshop</p>	
<p>16/5/2024</p> <p>Green Economy in Ports Workshop</p>	<p>Collaborative Work shop between AASTMT Port Training institute and The British University in Egypt brought together all staff members and participants from different Egyptian ports to discuss sustainability in ports AASTMT Port Training Institute-Green Economy in Ports Workshop</p>	

<p>(3/5/2024)</p> <p>Uni-Green Project Workshops</p>	<p>A 6-day bootcamp was organised at the AASTMT, as an outcome to Uni-Green Projects. In this workshop, participants will learn how to find innovative solutions to mitigate climate change effects locally and turn their ideas into business .</p> <p>Go-Green Workshop</p>	
<p>(21/2/2024)</p> <p>Visit to Egypt International Energy Exhibition "EGYPES 2024"</p>	<p>Students of AASTMT Chemical & Petrochemical Engineering department visited " Egypt International Energy Exhibition EGYPES 2024" on the 21st of February 2024</p> <p>EGYPES Exhibition 2024</p>	
<p>(1/1/2024)</p> <p>Energy Management Strategies for Marine Application: HOMER Pro-Renewable Energy Software Seminar</p>	<p>AASTMT Department of Marine and Platform Engineering at the College of Engineering and Technology announced the holding of a free seminar for graduate students under the title: "Energy Management Strategies for Marine Application: HOMER Pro Renewable Energy Software." It will be delivered by engineer Mayar Nabil Renewable energy and water desalination consultant at the Desert Research Center (Applied Research Center).</p> <p>Homer Software Seminar</p>	

<p>Dec. 2023</p> <p>A collaborative Egypt-Germany workshop on environmental science</p>	<p>AASTMT Postgraduate Studies Institute hosted a collaborative Egypt-Germany workshop on meteorology and environmental science at its Abu Qir campus. The event brought together students and professors from Freie Universität Berlin and was supported by DAAD.</p> <p>Egypt-Germany Workshop in AASTMT</p>	
<p>(30 Nov. 2023)</p> <p>A visit to Siemens Energy</p>	<p>Students from the Faculty of Engineering & Technology went on a scientific trip to the Siemens Energy headquarters in Ain Sokhna to link theoretical education with practical/industrial experience, and to better connect graduates with the labour market.</p> <p>Visit to Siemens Energy</p>	
<p>(27/11/2023)</p> <p>Electric Motors for Electric Vehicles Seminar</p>	<p>Presented by Dr. Shaohong Zhu, Electric Machine Engineer in Accelerator by Cummins, United Kingdom, this free seminar is prepared for AASTMT graduate students, final year students, and all those interested in the field of motors in electric vehicles towards green and clean energy.</p>	

(27/11/2023)

Tesla USA and how to apply for summer training in Tesla USA” Seminar

AASTMT hosted Engineer Jalal Salama (Senior Manufacturing Controls Engineer at Tesla, Texas USA and a graduate of the Mechanical Engineering Department at the Academy’s main headquarters in Abu Qir) to inform about his experience at Tesla and how to apply for summer training in Tesla US.

[Tesla Seminar](#)



Third: Graduation Projects

Annually, a number of departments in colleges of Engineering and Technology, all over AASTMT campuses, witness graduation projects from final year students that serve of renewable energy, carbon reduction, energy management and electric vehicles

[Graduation Projects](#) on AASTMT webpage

Examples of these projects are listed below;

Energy-related Graduation Projects in 2024

Department	Project
AASTMT Industry Service Complex	Smart Solar Waste Compactor
	Solar Agricultural Robot
	The Liquid Tree
Electrical and Control Eng. - AASTMT Alex.	Facility Management Energy Consumption Monitoring and Control
	Implementation of a Cardless Smart Meter
	Smart Greenhouse
	Electrical Installations of a Sustainable Social Hub Integrating PV and EV Charging Station