

## **1. Energy Management Services offered by AASTMT Productivity and Quality Institute (PQI)**

AASTMT PQI has a great role in supporting energy-efficient systems and offering energy management services by introducing the following;

### ➤ **ISO 50001 Energy management Systems Consultancy Service (EnMS)**

[https://aast.edu/en/institutes/pqi/contenttemp\\_item.php?unit\\_item=342&page\\_id=34200027](https://aast.edu/en/institutes/pqi/contenttemp_item.php?unit_item=342&page_id=34200027)

The purpose of the EnMS is to enable organizations to establish or re-structured the systems and processes necessary to improve energy performance, including energy efficiency, use, consumption and reduce running cost. ISO 50001 (Energy Management System) is based on the ISO management system model familiar to more than a million organizations worldwide who implement standards such as ISO 9001 (quality management), ISO 14001 (environmental management), ISO 22000 (food safety), ISO/IEC 27001 (information security). ISO 50001 can be implemented individually or integrated with other management system standards.

#### Benefits of ISO 50001 Application:

- Improves existing management systems.
- Leverages existing continual improvement processes.
- Develops a baseline of energy use.
- Actively manages energy use and costs.
- Reduce emissions without a negative impact on operations.
- Continual improvement of energy use versus product output over time.
- Potential for savings to be used for emission credits.
- Improves maintenance process culture in all types of organization.
- Generates a new source of thinking in energy Consumption model.

## ➤ Energy and Environmental Management courses

Environmental Management System (EMS) and Energy Management System (EnMS) helps sustainable businesses and help to reduce an organization's impact on the environment while improving operating efficiency, controlling, and reducing your organization's energy consumption, which reflects on, reducing product manufacturing costs as energy costs rise. Thus, AASTMT offers the following courses

### - Energy management training courses

Energy management courses focus on the proactive assessment and management of energy systems resulting in successful economic and environmental results.

[https://aast.edu/en/institutes/pqi/contenttemp\\_item.php?unit\\_item=343&page\\_id=34300118](https://aast.edu/en/institutes/pqi/contenttemp_item.php?unit_item=343&page_id=34300118)

الدورات التدريبية في مجال إدارة الطاقة

### Training Courses in Energy Management

#	Course Title	Date	Trainees No.	Company Name
1	Understanding Energy Management System ISO 50001 & Internal Audit	Feb 2020	11	- Egyptian Ethylene & Derivatives Company
2	Internal Audit for Energy Management System ISO 50001 Requirements	April 2019	10	- Misr Petroleum
3	Energy Management System Awareness ISO 50001	Feb 2019	10	- Misr Petroleum
4	ISO 50001:2018 Energy Management System Lead Auditor Training Course	July 2020	8	- Samsung Masr
5	ISO 50001:2018 Energy Management System Lead Auditor Training Course	September 2020	5	- Misr Petroleum - Alexandria Electricity Distribution Co - Abu Qir fertilizers Co

### - Environmental management training courses

Environmental management courses focus on how to mitigate the adverse effects of business and industrial operations on the Earth's environment.

[https://aast.edu/en/institutes/pqi/contenttemp\\_item.php?unit\\_item=343&page\\_id=34300113](https://aast.edu/en/institutes/pqi/contenttemp_item.php?unit_item=343&page_id=34300113)

- **Certificates for these courses**

[https://aast.edu/en/institutes/pqi/contenttemp.php?page\\_id=34300057](https://aast.edu/en/institutes/pqi/contenttemp.php?page_id=34300057)

**Local Training Accredited Certificates.**

- [Understanding ISO 14001:2015 Course.](#)
- [Documents and Records Preparation for ISO 14001:2015 Requirements Course.](#)
- [Internal Audit for ISO 14001:2015 Course.](#)
- [Energy Management Technology Course.](#)
- [Energy Management System ISO 50001 Awareness and Internal Audit Course.](#)

**International Training Accredited Certificates.**

- [ISO 14001:2015 Environmental Management Systems Auditor/Lead Auditor Course.](#)

- [ISO 14001:2015 Environmental Management Systems transition Course.](#)

- [ISO 50001:2011 Energy Management Systems Auditor/Lead Auditor Course.](#)

## **2. Energy-related M.Sc. and Meng. degrees**

- **Meng in Renewable energy and environment engineering (Alexandria)**

[https://aast.edu/en/colleges/coe/alex/dept/programtemp.php?program\\_id=251&unit\\_id=74](https://aast.edu/en/colleges/coe/alex/dept/programtemp.php?program_id=251&unit_id=74)

- **M.Sc. in Renewable energy and environmental engineering (Alexandria)**

[https://aast.edu/en/colleges/coe/alex/dept/programtemp.php?program\\_id=245&unit\\_id=74](https://aast.edu/en/colleges/coe/alex/dept/programtemp.php?program_id=245&unit_id=74)

- **M.Sc. of Smart Control Systems for Energy Management (Alexandria)**

[https://aast.edu/en/colleges/coe/alex/dept/contenttemp.php?page\\_id=7400022](https://aast.edu/en/colleges/coe/alex/dept/contenttemp.php?page_id=7400022)

- **M.Sc. in Electrical Smart Grid engineering (Alexandria)**

[https://aast.edu/en/colleges/coe/alex/dept/contenttemp.php?page\\_id=4500050](https://aast.edu/en/colleges/coe/alex/dept/contenttemp.php?page_id=4500050)

SGT-MaP  
Smart Grid Technology- A Master Program

الساعة 9:30 صباحا  
الجمعة 4 مارس 2022  
قناة صوت العرب

يا عرب صباح الخير  
مع الإعلامي  
ممدوح زكي

### 3. Trainings and seminars organized by Energy Research Units

#### ➤ Training courses

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)

#### ➤ Free Online Wind Training



The poster is a dark blue and red graphic with white and yellow text. At the top left, a red box contains the dates '13 - 14 October 2021' and the time '05:00 - 08:00'. To the right, it says 'Co-funded by the Erasmus+ Programme of the European Union' with the EU flag logo. Further right is the 'WESET' logo. Below these are five logos of partner institutions: AAST, RCREEE, BUE, and two others. The main title 'Project WESET's Online Wind Energy Training' is centered in white. Below the title is a paragraph describing the project. Two sections, 'Objectives' and 'Outlines', each followed by a bulleted list, are also in white. At the bottom, a Zoom logo and meeting details are provided, along with contact information for Prof. Mostafa Abdelgeliel. A small disclaimer is at the very bottom.

**13 - 14  
October  
2021  
05:00 - 08:00**

Co-funded by the  
Erasmus+ Programme  
of the European Union

**WESET**

**Project WESET's Online Wind  
Energy Training**

Project WESET (Wind Engineering Skills in Egypt and Tunisia) is an Erasmus+ European Union funded project aimed at building capacity at higher education and governance institutions in Egypt and Tunisia.

**Objectives**

- Disseminate the outcomes of WESET Project.
- Enhance the stakeholder's knowledge about Wind Energy and its trend in Egypt
- Know the theoretical and practical aspects of wind turbine components, operation and control

**Outlines**

- Introduction and Wind Energy (WE) in Egypt
- Fundamentals of WE and Aerodynamics
- Wind Turbine Mechanics and Dynamics
- Pitch, Yaw, and Drivetrain systems
- Tower Design and Trends
- Wind Turbine Generators
- Wind Farm Power Transmission
- Grid Code and Regulation
- Lightning Protection of WF
- Control strategies and Control Anatomy
- Operation, Load Mitigation and Control

**zoom**  
Meeting ID: 92500407638  
Pass code: 857783

Contact: Prof. Mostafa Abdelgeliel,  
Head of Energy research unit, AAST, Tel.  
01220646998

The European commission support for the proadction of this publication does not constitute an endorsement of ontents which reflects the views only of the authors, and the commission cannot be held responsible for any use which may be made of the information contained therein

➤ PV market seminar



# Egyptian Photovoltaic Energy Market

"Current and Future Trends"

**26** October 2021

02.15 p.m - 03.15 p.m.  
Room 303

Guest Speaker : Prof. Ahmed Kadry Abdelsalam

 **Electrical & Control Engineering Department, AASTMT**