

ADVANCED TRAINING ON ENERGY MANAGEMENT SYSTEM DEVELOPMENT AND IMPLEMENTATION BASED ON ISO50001:2018 FOR ADOPTION AND CERTIFICATION



SANDHURST
ADVISORY

Date & Venue : As scheduled
Duration : 2 Days (9am-5pm)
Fees : RM2500

OVERVIEW

This is a training program for non-technical and technical personnel who are involved or related to energy management activities directly or in-directly in the organization or as the external services providers.

The training comes with overall and practical strategies on the effective implementation of energy management system (EnMS) especially for large energy users that will result energy cost reduction and contributing to achieve global targets the Sustainable Development Goals by 2030 and Net Zero or Carbon Neutrality by 2050.

OBJECTIVES

- To equip participants with comprehensive knowledge and techniques in developing and implementing measures for efficient management of energy at any organization.
- If the organization has already implemented EnMS, it will help to improve the implementation especially in energy data collection, analysis and performance monitoring of the system.
- To confirm or to establish the correct energy baseline and energy performance indicators to check the actual progress and results of the EnMS implementation in the management reviews for continuous supports and continual improvement.

TRAINING METHODOLOGY

- The training comes with the step-by-step guides on practical strategies, key steps and guidelines on how to develop and implementing an effective system to reduce operational costs from sustainable energy management practices.
- It would also help to improve the existing and future energy performance with the use of a practical and user-friendly EnMS tool based on the template by UNIDO for on-going updates and monitoring of energy management activities for inputs in strategic business decisions making process.
- Participants are required to analyze energy related data and information from the real-life case studies given or from their own data in the workshop during the training session.
- Sharing of examples from ISO50001 certified facilities.

BENEFITS OF PARTICIPATING

- Will equip participants with comprehensive knowledge and techniques to help their organization in reducing business operating costs for energy through management practices in the current and very challenging economic climate especially since the Covid-19 pandemic started.
- To meet market requirements and meeting the mandatory reporting requirements on sustainability and green practices for public listed companies.
- To comply to the current legal requirements and the expected tighter requirements in the future related to energy and national and global environmental related commitment.
- To prepare the organization to meet requirements for the certification if needed.
- The sharing of real-life case studies from organizations that have been successfully implemented EnMS by the adopting the ISO50001 and until certified by local and international certification bodies.

WHO SHOULD ATTEND?

- Top management representatives and energy management committee members
- Management groups and executives from large energy users
Energy managers
- Sustainability managers.
- Energy Service Companies
- Government officers/engineers/technical personnel involved in sustainable energy management programs at federal, state and local authority levels
Energy management and energy efficiency consultants and practitioners.
- ISO50001 external and internal auditors
- Facilities and asset managers
- Asset owners, administrators and facility management companies
- Operation and maintenance directors, managers and executives
- Lecturers, researchers, academicians and under and post- graduate students

OUR CONSULTANT



MR ZAINI ABDUL WAHAB

- Registered electrical energy manager (reem) with Energy Commission
- Certified as an expert in Energy Management System (EnMS) by United Nations Industrial Development Organisation (UNIDO)
- Certified energy auditor and an accredited energy measurement and verification professional by Malaysia Association of Energy Service Companies (MAESCO)
- Energy management consultant who specialises in reducing business operational costs for organisations through energy management system implementation.
- Holds Masters's degree in energy management from National Energy University (UNITED) and a bachelor's degree in Mechanical Engineering (Hons) from National University of Malaysia (UKM).
- Certified trainer by the HRD Corporation

TRAINING OUTLINE

DAY 1

TIME	TOPIC
9.00 a.m.	Introduction & the business case of energy management <ul style="list-style-type: none">• Market trends & contribution to Sustainability Development Goals & Net Zero Targets• Malaysia's energy supply & demand trends & GHG reduction commitment
9.45 a.m	Why standard & strategic planning for energy management? <ul style="list-style-type: none">• Key definitions and concepts of EnMS for organisations• The approach & key elements in ISO50001:2018
10.30 a.m.	Tea Break
10.45 a.m.	System planning : Leadership & commitment : <ul style="list-style-type: none">• Interested parties' expectations, roles of top management & energy policy• Energy management team formation & defining roles & responsibilities.
11.15 a.m.	Energy planning : <ul style="list-style-type: none">• Energy data collection & analyses• Past & present energy consumption trends & SEUs
1.00 p.m.	Lunch Break
2.00 p.m	Energy planning - Energy performance indicators & energy baseline
3.30 p.m	Tea Break
3.45 p.m	Energy planning-Estimating future of energy consumption through energy modelling
5.00 p.m	End of Day 1

DAY 2

TIME	TOPIC
9.00 a.m	Energy planning : <ul style="list-style-type: none">• Methods to identify & common measures for energy performance improvement opportunities• Financial analysis for energy saving projects implementation
10.30 a.m	Tea Break
10.45 a.m	Energy planning : Objectives and target setting & action plan
11.15 a.m	System Operation:Operational control, key operating parameters & maintenance criteria
12.00 p.m	System Operation : Energy efficiency design & procurement evaluation criteria
1.00 p.m	Lunch Break
2.00 p.m	EnMS Operation : Competence and awareness and system records and documentation
3.30 p.m	Tea Break
3.45 p.m	Performance Evaluation : Energy performance & system checking, Measuremen & Verifica
4.15 p.m	Performance Evaluation : Management reviews & Continual Improvement
4.45 p.m	Conclusion and what's next?
5.00 p.m	End of Training