



Energy Audits in Industrial Small Medium Enterprises (SMES) - Training Course

Presentation of the Training Program and Goal

Eng. Rim Boukhchina, Activity leader

Sunday, 8 December 2019 – Cairo, Egypt



Funded by the
European Union

meetMED WP 2 Activities

Reinforcing public awareness and capacity building of local stakeholders on EE and RE

Developing training courses with focus on energy audits in industrial processes, tertiary building and RE systems in buildings related to national and regional operational programme

Sustainable energy design toolkit for public authorities

Methodology for the elaboration of energy audits in industrial SMEs

Integration of EE and RES measures in buildings

7-11 July 2019

Algiers, Algeria

8-12 December 2019

Cairo, Egypt

3-7 February 2020

Tunis, Tunisia

Training Course Goal

The course is designed to provide meetMED energy experts with the necessary **skills and knowledge to improve energy efficiency and profitability in the industrial sector** and to gain required methodology for the completion of a thorough energy audit. Furthermore, the course will include the **exchange of regional experiences** among meetMED targeted countries, in planning and implementing EE plans and related measures for industrial SMEs and will deliver proven best practices for optimizing energy-intensive equipment and systems.

Target participants are public agencies, the industrial sector, energy experts in charge of promoting EE programs and their application with a focus on the industrial sector.

Training Course Content

Overview on Energy Efficiency

General Aspects of Energy Management and Energy Audit

Electrical Energy Management

Thermal Energy Management

Energy Auditing
ISO 50002

Instruments and Tools for Energy Auditing

Energy Performance Assessment of Equipment and SMEs

Economic Analysis and Project Financing

Measurement and Verification
(M&V)

Demand Side Management Programs

Experience Exchange & Best Practices on Promoting EE in the Industrial Sector

RCREEE 

Regional Center for Renewable Energy and Energy Efficiency
المركز الإقليمي للطاقة المتجددة وكفاءة الطاقة

Experts and Trainers



Dr Khaled Al Fraa

Eng. Mina Adly



Eng. Ahmed Atef



Training Course Agenda (Day 1)

10:15 - 10:25	Roundtable introductions of the participants
10:25 – 10:50	Coffee break
10:50 - 11:20	Overview and achievements of the SwitchMed initiative Ayman ELZAHABY, Regional TEST Coordinator, SwitchMed/UNIDO
11:20 - 11:50	Introduction to AFEX EE Hussam ALHERAFI, Project Manager, RCREEE
11:50 - 12:20	Regional Policies and Legal Framework Khaled SALMI, Project Manager, RCREEE
12:20 - 12:50	Q&A and Open Discussion
12:50 - 14:00	Lunch break
14:00 - 15:00	1. Overview on Conservation and Efficient Use of Energy Resources Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
15:00 - 15:30	2. General Aspects of Energy Management & Energy Audit Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
15:30 – 15:45	Coffee break
15:45 – 16:45	2. General Aspects of Energy Management & Energy Audit Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
16:45 - 17:15	Wrap up and discussion

Training Course Agenda (Day 2)

09:00 - 10:15	3. Electrical Energy Management Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
10:15 - 10:45	Q&A and discussion
10:45 – 11:00	Coffee break
11:00 - 12:15	4. Thermal Energy Management Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
12:15 - 12:45	Q&A and discussion
12:45 - 14:00	Lunch break
14:00 - 15:30	5. Energy Auditing ISO 50002 Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
15:30 – 15:45	Coffee break
15:45 - 16:45	6. Instruments and Tools for Energy Auditing Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
16:45 - 17:15	Wrap up and discussion

Training Course Agenda (Day 3)

09:00 - 09:45	7. Energy Performance Assessment of Equipment and SMEs Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
09:45 - 10:30	8. Economic Analysis and Project Financing: Case studies from Egypt Ahmed ATEF, Energy Expert, RCREEE & Mina ADELI, Energy Expert, RCREEE
10:30 - 10:45	Q&A and discussion
10:45 – 11:00	Coffee break
11:00 - 11:30	8. Economic Analysis and Project Financing: Case studies from Tunisia Ahmed ATEF, Energy Expert, RCREEE & Mina ADELI, Energy Expert, RCREEE
11:30 - 12:15	9. Measurement and Verification (M&V) Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
12:15 - 12:45	Q&A and discussion
12:45 - 14:00	Lunch break
14:00 - 15:30	10. Demand Side Management Programs Khaled A. ELFARRA, PhD, GM Senior EE expert, RCREEE
15:30 – 15:45	Coffee break
15:45 - 16:45	11. H2020 STEAM-UP Project – Case Studies from steam systems in SME industries in Greece Katerina SFAKIANAKI, Energy expert, CRES
16:45 - 17:15	Wrap up and discussion

Training Course Agenda (Day 4)

09:00 – 09:45	11. Energy policy for industry and enterprises in Italy Enrico BIELE, Energy Expert, ENEA
09:45 - 10:15	11. Energy audits implementation in Italy Enrico BIELE, Energy Expert, ENEA
10:15 - 10:45	Q&A and discussion
10:45 – 11:00	Coffee break
11:00 – 12:00	11. Promoting Energy Efficiency in industrial sector: Jordanian Case study Representative from Jordan, EE Expert, MEM
12:00 – 12:30	11. <u>Industrial Energy Efficiency Fund (IEEF)</u> Ahmed ATEF, Energy Expert, RCREEE
12:30 - 12:45	Q&A and discussion
12:45 - 14:00	Lunch break
14:00 - 14:30	11. Promoting Energy Efficiency in industrial sector: Moroccan Experience Slimane SMOUH, Expert in Energy audits in industry, AMEE
14:30 – 15:00	11. Promoting Energy Efficiency in industrial sector: Lebanese Experience Tony GEBRAYEL, Engineer, LCEC
15:00 - 15:30	11. Promoting Energy Efficiency in industrial sector: Algerian Experience Amira MEDJAHED, EE Expert, APRUE
15:30 – 15:45	Coffee break
15:45 - 16:15	11. Promoting Energy Efficiency in industrial sector: Case study Topic to be defined by meetMED partners
16:15 - 16:45	Wrap up and conclusion - Matteo BARRA, meetMED Project Manager
16:45 - 17:00	Training Course General conclusions Ahmed BADR, Executive Director, RCREEE & Matteo BARRA, meetMED Project Manager

Day 5 : Site Visit

BariQ Company

CPC Industrial Compound Area

6th October City, Giza, Egypt

To Be Confirmed



Thank you for your attention