

## *In the framework of the UfM REEE Platform*

## **meetMED training course on**

# **ENERGY EFFICIENCY and RENEWABLE ENERGY SOURCES IN BUILDINGS**

**Monday, 24 February until Friday, 28 February 2020**

**Venue: Laico Hotel** - Avenue Mohamed V, Place Des Droits De L'Homme, Tunis (Tunisia)

Under the auspices of the Union for the Mediterranean and hosted by the Tunisian National Agency for Energy Conservation (ANME), this training session on “Energy Efficiency and Renewable Energy Sources in Buildings will gather representatives from UfM Member States. Target participants are representatives from public authorities and from the private sector in charge of and/or interested in the implementation of energy efficiency and renewable energy in the local building sector.

The event has been organized by ANME in cooperation with the Greek Centre for Renewable Energy Sources and Saving (CRES), and the Regional Centre for Renewable Energy and Energy Efficiency (RCREEE), as part of the meetMED (Mitigation Enabling Energy Transition in the Mediterranean Region) project, which is funded by the EU and jointly implemented by the Mediterranean Association of National Agencies for Energy Management (MEDENER) and RCREEE.

The training package has been jointly designed by ANME, CRES, the Jordanian National Energy and Research Centre (NERC) and the French National Agency for Environment and Energy Management (ADEME).

The training will be back to back with the Eco-construction Conference and Fair, which will be held on 25 and 26 February 2020 in Tunis at the Palais des Congrès. This event offers an informative, participative and interactive space dedicated to Green Buildings, with several experts illustrating High Tech building, focusing on the use of new local and ecological products.

## Background

Developed within the framework of the meetMED activities on reinforcing public awareness and capacity building of UfM Member States' stakeholders on EE and RES, this training provides theoretical and practical instruments to integrate energy efficiency and renewable energy in the buildings.

For energy efficiency, this will include information concerning both the structural components of the building (e.g. insulation of building fabric, replacement of windows etc.) and the electromechanical equipment (e.g. heating, ventilation, air-conditioning, lighting etc.), as well as behavioral aspects (e.g. education training of the building users, technical staff, auxiliary personnel etc.).

For renewable energy, this will mainly include information concerning photovoltaic systems (e.g. grid-connected systems with a selling tariff, grid-connected with metering, autonomous systems) and solar thermal systems (e.g. for hot water, heating and/or cooling). Information concerning the use of micro-grids will also be included.

The training has been prepared by meetMED experts taking into account the experience of other EU-funded and bilateral technical assistance and capacity building programs, such as: [MED – ENEC II Energy Efficiency in Construction](#), [IMPULSE Integrated Management Support for Energy efficiency in Mediterranean Public Buildings](#), [SHERPA Shared knowledge for Energy renovation in buildings by Public Administrations](#), [CA-EPBD Concerted Action Energy Performance of Buildings Directive](#), [SwitchMed](#), the [Global Alliance for Building and Construction](#).

The training package consists of the following teaching units:

1. EE & RES in buildings and legislative framework on EE & RES – drafted by CRES/ANME
2. Supporting Policy Implementation of EE measures in buildings – drafted by ADEME
3. Integration of EE in buildings – drafted by NERC
4. Integration of RES systems in buildings – drafted by CRES
5. Energy Audits and Energy Management– drafted by CRES
6. RE electric systems considerations (interconnection, net metering, time of use rates, feed-in tariffs) – drafted by CRES
7. Micro-grids – drafted by CRES

## Monday, 24 February 2020

08:30 - 09:00	<b>Registration of participants</b>
09:00 - 09:40	<p><b>Welcome Address</b>                      General Director, ANME                      Fethi HANCHI, Director of Division for the Rational Use of Energy, ANME                      Quentin PEIGNAUX, EU Delegation Tunisia</p> <p><b>Presentation of the meetMED project</b>                      Matteo BARRA, meetMED Project Manager</p> <p><b>Training goals and program presentation</b>                      Hassen EI AGREBI, Head of the International Cooperation, ANME</p>
09:40 - 10:00	<b>Roundtable introductions of the participants</b>
10:00 – 10:45	<p><b>1. EE &amp; RES in buildings and legislative framework– part 1</b>                      Fethi HANCHI, ANME</p>
10:45 – 11:00	<i>Coffee break</i>
11:00- 12:00	<p><b>1. EE &amp; RES in buildings and legislative framework– part 2</b>                      Fethi HANCHI, ANME</p>
12:30-13:30	<b>Site Visit in Laico Hotel: implementation of EE measures</b>
13:30 - 14:30	<i>Lunch break</i>
14:30 - 15:30	<p><b>2. Supporting Policy Implementation of EE measures– part 1</b>                      Romain RIOLLET, ADEME</p>
15:30 - 15:45	<i>Coffee break</i>
15:45- 17:00	<p><b>2. Supporting Policy Implementation of EE measures– part 2</b>                      Romain RIOLLET, ADEME</p>
17:00– 17:30	<b>Day conclusions/modules lessons learnt</b>

## Tuesday, 25 February 2020

09:00 – 09:30	<b>SEACAP and EE in buildings for local authorities</b> Amel MAKHLOUF, Clima-Med
09:30 – 10:45	<b>3.Integration of EE in buildings – part 1</b> Miguel SANTIAGO, ADENE
10:45 – 11:00	<i>Coffee break</i>
11:00 – 12:30	<b>3. Integration of EE in buildings – part 2</b> Miguel SANTIAGO, ADENE
12:30- 13:00	<b>Daily conclusions and lessons learnt</b>
13:00 - 14:00	<i>Lunch break at Laico Hotel</i>
14:30 – 17:30	<b>Visit to the Eco Construction Fair and conference (opening session and visit to the fair exhibition)</b> <i>(Place: Palais des Congrès Tunis, in front of Laico Hotel)</i>

## Wednesday, 26 February 2020

09:00 - 10:00	<b>3. Integration of EE in buildings – part 3</b> Miriam BENEDETTI, ENEA
10:00 – 10:15	<i>Coffee break</i>
10:15-11:30	<b>3. Integration of EE in buildings – part 4</b> Miriam BENEDETTI, ENEA
11:30- 12:30	<b>Promotion of self-production in solar buildings</b> Sana KACEM, ANME
12:30- 13:45	<i>Lunch break</i>

13:45-15:15	<b>5. Energy Audits in buildings – part 1</b> Harilaos ANDREOSATOS, CRES
15:15–15:30	<i>Coffee break</i>
15:30-17:00	<b>5. Energy Audits in buildings – part 2</b> Harilaos ANDREOSATOS, CRES
17:00–17:30	<b>Daily conclusions and lessons learnt</b>

## Thursday, 27 February 2020

09:00 - 10:30	<b>4. Integration of RES in buildings – part 1-2</b> Adnan JOUNI, ALMEE
10:30– 10:45	<i>Coffee break</i>
10:45- 12:15	<b>4. Integration of RES in buildings – part 3-4</b> Adnan JOUNI, ALMEE
12:15- 13:30	<i>Lunch break</i>
13:30 - 14:00	<b>Efficacité énergétique des bâtiments : au cœur de la lutte contre le changement climatique</b> Ibtissem BOUATTAY, GABC
14:00 - 15:30	<b>5. Energy Audits in buildings – part 3</b> Foteini KARAMANI, CRES
15:30 - 15:45	<i>Coffee break</i>
15:45- 17:00	<b>5. Energy Management – part 4</b> Foteini KARAMANI, CRES
17:00– 17:30	<b>Daily conclusions and lessons learnt</b>

## Friday, 28 February 2020

09:00 - 10:15	<b>6. RE electrical system considerations</b> Ali HABIB, RCREEE
10:15– 10:30	<i>Coffee break</i>
10:30 - 12:30	<b>7. Microgrids</b> Ali HABIB, RCREEE
12:30 – 13:30	<i>Lunch Break</i>
13:30 –17:00	<b>Site visit (port de Radès, port led lighting with PV system) TBC</b>
	<b>Daily conclusions and lessons learnt</b>

For any further information, please do not hesitate to contact:

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