



CROSS BORDER LIVING LAB INITIATIVE



Mediterranean Cross Border Living Lab
live the experience of university **building** environment

MED beX.live Webinar Series Report

August 2020



Webinar #1

Tuesday, 23 June 2020, 11:00-13:00 am CEST

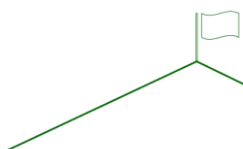
How to implement sustainable policies with a cost-effective approach for construction and building renovation?

Organized by: **MEDREC (Mediterranean Renewable Energy Centre) & ENIT (National Engineering School of Tunis)**, **ANME (National Agency for Energy Management)**

In collaboration with: **ANME (National Agency for Energy Management)**
ENI CBC MED invited projects: **Green Building, ESMES**

[annex 1 - Webinar Agenda #1 - MEDREC]

The first MED beX.live webinar was organized by MEDREC, coordinator of Med-EcoSuRe project. The webinar started with a brief introduction of the Med-EcoSuRe project, its objective and findings (I. Khalifa – MEDREC) and then hosted the two ENICBC involved projects: Green Building (M. Kouta – University of Patras) and ESMES (S. Amara – National Agency for Energy Management). The two presentations reported the advancements of the respective projects, highlighting the role of regulations and policies for public buildings to foster sustainability in the Med Area. Focusing on the Tunisian case study, the webinar continued with an overview on the actual implementation of thermal and energy regulations in buildings in Tunisia, which also investigated the relative technical, economic and social barriers (A. Ben Othman - Ministry of Equipment, Housing and Territorial Development in Tunisia). Following; the history of the process of implementing thermal and energy regulations in buildings in Tunisia was presented (M. Bahri – Energy expert). Focusing on university buildings, the Med-EcoSuRe partner ENIT explained its contribution in the elaboration of thermal regulations related to university buildings in Tunisia (C. Bouden). Based on the lessons learned, the webinar finally proposed recommendations for promoting energy managers' mission within universities and the implementation of necessary capacity building programs (M. Bahri – Energy expert).



Webinar #2

Tuesday, 30 June 2020, 4:00-6:00 pm CEST

How to perform energy efficient renovation of school buildings and its integration into education programs and education environments?

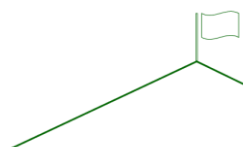
Organized by: **ANEA (Agenzia Napoletana Energia e Ambiente)**

In collaboration with: **Università degli Studi della Campania Luigi Vanvitelli and Università degli Studi di Napoli Federico II**

ENI CBC MED invited projects: **ESMES**

[annex 2 - Webinar Agenda #2 - ANEA]

The second webinar, hosted by ANEA, opened the Med-EcoSuRe project towards the larger themes of school and education. The webinar was introduced by the MCbLL (Mediterranean Cross Border Living Lab) coordinator (A. Trombadore – Università di Firenze), who presented the cross-border living lab approach and its objectives. To follow, the Med-EcoSuRe objectives and findings were reported (N. Barbato – ANEA), such as the role and experience within the project of the associated partners: Università della Campania “L. Vanvitelli” (A. Violano) and Università di Napoli “Federico II” (D. D’Agostino). The second part of the webinar was dedicated to the ENICBC invited project ESMES, which was described in its general features, in the methodology adopted for the energy retrofit of school buildings (S. Rossi – Istituto per la Cooperazione Universitaria) and finally in its Italian case study in the Municipality of Alcamo (Sicily), which also considered the post-Covid conditions in schools (E. A. Parrino). In the final part, the local stakeholders involved presented their experience in the field of energy retrofit of buildings, as research (M. Fumo – Director of CITTAM, Centro di ricerca Interdipartimentale per lo studio delle Tecniche Tradizionali dell’ Area Mediterranea) and as public body (G. Vairo – Mayor of Piaggine, Salerno).





Webinar #3

Tuesday, 14 July 2020, 4:00-6:00 pm CEST

How may technology, especially BIM Methodology, accelerate growth and competitiveness in the Building sector?

Organized by: **DIDA (Department of Architecture) - University of Florence**

ENI CBC MED invited projects: **BEEP**

[annex 3 - Webinar Agenda #3 – UNIFI-DIDA]

The third MED beX.live webinar was organized by the Department of Architecture of the University of Florence (DIDA), which is in charge of the coordination of the MCbLL, and so of the MED beX.live Webinar Series.

The webinar was opened by the UNIFI-DIDA research team, which explained the contribution to the Med-EcoSuRe project. In particular, the three presentations dealt with the challenges of the Italian pilot project of Santa Verdiana – University of Architecture in Florence (A. Trombadore), the information work-flow used for the energy performance evaluation of the building, exploiting the BIM/Digital Twin digital technologies (J. C. Olano, G. Calcagno, M. Paolini), and finally focused on the monitoring protocol and on the human comfort in buildings (C. Balocco, M. De Lucia and G. Pierucci). The second part of the webinar was dedicated to the ENICBC invited project BEEP (BIM for Energy Efficiency in the Public sector), whose Italian partner presented the application of BIM for the energy rehabilitation of public buildings, with a focus on heritage buildings (E. Gigliarelli – ITABC, Istituto per le Tecnologie Applicate ai Beni Culturali). In the third part, local stakeholders carried out their presentations on the building stock of the University of Florence (F. Napolitano – Ufficio Tecnico Università di Firenze), on energy management and Energy Performance Contracts (V. Coccia – CET, Consorzio Energia Toscana) and on the use of the BIM tools and relative best practices (F. Andreatta – All Plan Italia).



Webinar #4

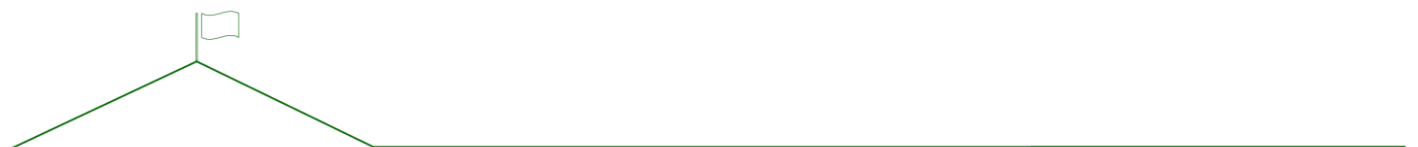
Tuesday, 21 July 2020, 11:00-12:30 am GMT+3

How to implement the techno-economic assessment of on-grid PV system?

Organized by: **ERC (Energy Research Centre) - An-Najah National University**

[annex 4 - Webinar Agenda #4-ERC]

The fourth MED beX.live webinar was carried out by the Energy Research Centre of the An Najah University, and has Renewable energy as main theme. The meeting started with an overview on the Med-EcoSuRe project's objectives and findings (I. Ibrik - An-Najah National University), followed by the presentation of the Palestinian Renewable Energy Strategy 2030 (B. Yasine - Director of R.E Unit- Palestinian Energy and Natural Resources Authority "PENRA"). This was the occasion to analyse the solar energy laws and regulation in Palestine (Q. Samarah - Licensing Director-Palestinian Electricity Regulatory Council"PERC"). More in-depth, the webinar turned on the techno-economic impact of the implementation of renewable energy systems in Palestine (I. Ibrik - An-Najah National University), and analysed two Palestinian case study on the assessment of PV Solar power plants and on the impact of solar PV projects on distribution networks.





Webinar #5

Tuesday, 28 July 2020, 10:00-12:00 am GMT+2

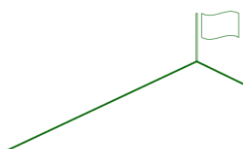
How can cost-effective energy efficiency and high-tech renewals take place in isolated zones/towns?

Organized by: **SOLARTYS (Spanish Association for the Internationalization and Innovation of Solar Companies) & TMT-US (Thermal Energy Engineering Department) -University of Seville**

ENI CBC MED invited projects: **BERLIN**

[annex 5 - Webinar Agenda #5-TMT-US]

The final MED beX.live webinar was organized by SOLARTYS and the Thermal Energy Engineering Department of the University of Seville and focused on the theme of energy efficiency in isolated zones and towns. Following the introduction of Med-EcoSure project (A. Alvares – SOLARTYS), the webinar continued with the presentation of the ENICBC invited BERLIN project, which is dealing with cost-effective rehabilitation of public buildings into smart and resilient nano-grids using storage (G.E. Georghiou – University of Cyprus). The last section of the webinar was dedicated to the presentation of three “technical cases”: the high-tech renewables of public buildings, Avra and the University of Sevilla (J.L.Molina – University of Seville; the blockchain technology in the energy field (M. De La Mano – Technical expert in Prosume) and rural mini-grids with PV/hybrid generation (M. Lazopoulou – Mini-grid specialist in TTA).



Annex 1 – Webinar Agenda #1 – MEDREC





Invited Projects:

 **GreenBuilding**
 **ESMES**

 **Med-EcoSuRe**



MED bex live
Mediterranean Cross Border Living Lab
live the experience of university building environment

Mediterranean University as Catalyst for Eco-Sustainable Renovation
WEBINAR

How to implement sustainable policies with a cost-effective approach for construction and building renovation?

Tuesday, 23 June 2020 11:00 - 13:00 AM CEST

link to connect: <https://meet.google.com/vyn-poci-hsb>

Organized by: **MEDREC** (Mediterranean Renewable Energy Centre)
in collaboration with: **ENIT** (National Engineering School of Tunis) - **ANME** (National Agency for Energy Management)

<p>h. 11:00-11:10 I. KHALIFA / Project Coordinator Med-EcoSuRe Mediterranean Renewable Energy Centre (MEDREC) <i>Presentation of the Project, its objectives and findings</i></p> <p>h. 11:10-11:20 M. KOUTA / Green Building Project University of Patras <i>Supporting sustainable energy-policies in public buildings</i></p> <p>h. 11:20-11:35 S. AMARA / Esmes Project National Agency for Energy Management (ANME) - <i>Presentation of ESMES project</i> - <i>Current situation of the building sector in Tunisia</i> - <i>Projects aiming at implementing thermal and energy regulations in public buildings in Tunisia</i></p> <p>h. 11:35-11:45 A. BEN OTHMAN Ministry of Equipment, Housing and Territorial Development - General Directorate of Civil Buildings - Tunisia - <i>Role of the Ministry of Equipment in the implementation of thermal and energy regulations in buildings in Tunisia</i> - <i>Energy savings in public buildings</i> - <i>Challenges / Difficulties encountered while implementing the thermal regulations in public buildings</i></p>	<p>h. 11:45-12:05 M. BAHRI Energy Efficiency & Renewable Energy expert <i>History of the process of implementing thermal and energy regulations in buildings in Tunisia</i></p> <p>h. 12:05-12:15 C. BOUDEN /Med-EcoSuRe partner National Engineering School of Tunis (ENIT) <i>Contribution of ENIT in the elaboration of thermal regulations in university buildings in Tunisia</i></p> <p>h. 12:15-12:35 M. BAHRI Energy Efficiency & Renewable Energy expert <i>Recommendations for promoting energy managers' mission within universities and the implementation of necessary capacity building programs</i></p> <p>h. 12:35-13:00 Debate and conclusion</p>
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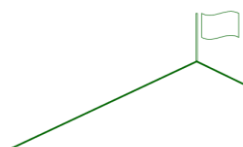












Annex 2 – Webinar Agenda #2 – ANEA





Invited Project:





Med-EcoSuRe

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WEBINAR

How to perform energy efficient renovation of school buildings and its integration into education programs and education environments?

Tuesday, 30 June 2020 4:00 - 6:00 PM CEST

link to connect: <https://meet.google.com/vyn-poci-hsb>

Organized by: **ANEA - Agenzia Napoletana Energia e Ambiente**
in collaboration with: **Università degli Studi della Campania Luigi Vanvitelli** and **Università degli Studi di Napoli Federico II**

<p>h. 4:00-4:10 A. TROMBADORE / Living Lab Coordinator Università degli Studi di Firenze - Dipartimento di Architettura DIDA <i>Presentation of the Cross Border Living Lab: objectives and approach</i></p> <p>h. 4:10-4:40 N. BARBATO / Med-EcoSure Project manager ANEA - Agenzia Napoletana per l'Energia e l'Ambiente <i>Med-EcoSure project: objectives and findings</i></p> <p>A.VIOLANO / Med-EcoSure Associated partner Università degli Studi della Campania "L. Vanvitelli" - Dipartimento Architettura e Disegno Industriale <i>- The role and experience of UniCampania as associated partner of Med-EcoSure</i> <i>- MedBeXLive in Campania Region</i></p> <p>D. D'AGOSTINO / Med-EcoSure Associated partner Università degli Studi di Napoli "Federico II" - Dipartimento Ingegneria Industriale <i>- The role and experience of Federico II as associated partner of Med-EcoSure</i></p>	<p>h. 4:40-5:00 S. ROSSI/ ESMES Project Coordinator Istituto per la Cooperazione Universitaria <i>- Presentation of the ESMES project</i> <i>- Partner's knowledge sharing on energy retrofit of school buildings: methodology and expected results</i> <i>- School interventions: methodology and capitalization of results</i></p> <p>E.A. PARRINO/ ESMES Project Partner Comune di Alcamo (TP) <i>Energy situation of school buildings in the municipality of Alcamo, project activities and post COVID school</i></p> <p>h. 5:00-5:20 M. FUMO / Director CITTAM Centro di ricerca Interdipartimentale per lo studio delle Tecniche Tradizionali dell'Area Mediterranea <i>The experience of CITTAM in the energy retrofit of buildings: research activity and initiatives</i></p> <p>G. VAIRO / Sindaco Comune di Piaggine (SA) <i>The commitment of the Municipality of Piaggine in promoting energy retrofit interventions</i></p> <p>h. 5:20-6:00 Debate and conclusion</p>
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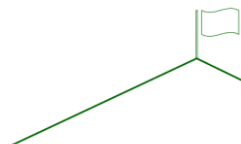










Annex 3 – Webinar Agenda #3 – UNIFI-DIDA





Invited Project:






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Mediterranean University as Catalyst for Eco-Sustainable Renovation
WEBINAR

How may technology, specially BIM Methodology, accelerate growth and competitiveness in the Building sector?

Tuesday, 14 July 2020 4:00 - 6:00 PM CEST

[link to connect: https://meet.google.com/vyn-poci-hsb](https://meet.google.com/vyn-poci-hsb)

Organized by: **Department of Architecture DIDA - University of Florence**

<p>h. 4:00-4:10 S. MECCA / Med-EcoSuRe Project Coordinator Università degli Studi di Firenze - Dipartimento di Architettura DIDA <i>Welcome and introduction</i></p> <p>h. 4:10-4:50 UNIFI contribution > Med-EcoSuRe Project Università degli Studi di Firenze Dipartimento di Architettura DIDA</p> <p>A. TROMBADORE <i>The challenge of Santa Verdiana Pilot project</i></p> <p>J.C. OLANO / G. CALCAGNO / M. PAOLINI <i>Information work-flow (BIM/Digital Twin) for the energy performance evaluation of buildings</i></p> <p>C. BALOCCO / M. DE LUCIA / G. PIERUCCI <i>Monitoring protocol and human comfort in buildings</i></p>	<p>h. 4:50-5:10 E. GIGLIARELLI / BEEP Project Coordinator Istituto per le Tecnologie Applicate ai Beni Culturali (ITABC) <i>BIM for energy efficiency in the public sector</i></p> <p>h. 5:10-5:20 F. NAPOLITANO Ufficio Tecnico Università degli Studi di Firenze <i>The building stock of University of Florence</i></p> <p>h. 5:20-5:30 V. COCCIA Consorzio Energia Toscana (CET) <i>Energy management and Energy Performance Contract</i></p> <p>h. 5:30-5:40 F. ANDREATTA All Plan Italia <i>BIM tools and best practices</i></p> <p>h. 5:40-6:00 Debate and conclusion</p>
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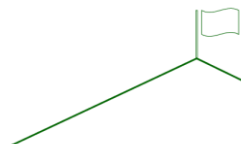












Annex 4 – Webinar Agenda #4 – ERC







Med-EcoSuRe

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**Mediterranean University as Catalyst for Eco-Sustainable Renovation
WEBINAR**

How to implement the techno-economic assesment of on-grid PV system

Tuesday, 21 July 2020 11:00 - 12:30 AM GMT+3

link to connect: <https://meet.google.com/vyn-poci-hsb>

Organized by: **Energy Research Center - An-Najah National University**

<p>h. 11:00-11:20 I. IBRIK / Med-EcoSuRe Project Coordinator Energy Research Center - An-Najah National University <i>Presentation of Med-EcoSuRe Project Objectives & Findings</i></p> <p>h. 11:20-11:40 B. YASINE Director of R.E Unit- Palestinian Energy and Natural Resources Authority "PENRA" <i>R.E. Strategy in Palestine by 2030</i></p> <p>h. 11:40-11:50 Q. SAMARAH Licensing Director-Palestinian Electricity Regulatory Council "PERC" <i>Solar Energy Lawso-Reguquations in Palestine</i></p>	<p>h. 11:50-12:00 I. IBRIK / Med-EcoSuRe Project Coordinator Energy Research Center - An-Najah National University <i>Techno Economic Impact of Implementation R.E Systems in Palestine</i></p> <p>h. 12:00-12:10 F. HASHAIKA Expert <i>Case Study 1-Assessment of 2.5 MW PV Solar Power Plant in Palestine</i></p> <p>h. 12:10-12:20 F. SALAMEH Expert <i>Case Study 2-Impact of Solar PV Projects on Distribution Network</i></p> <p>h. 12:20-12:30 Debate and conclusion</p>
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Annex 5 – Webinar Agenda #5 – TMT-US





Invited Project:



Med-EcoSuRe



BERLIN



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**Mediterranean University as Catalyst for Eco-Sustainable Renovation
WEBINAR**

*How can cost-effective energy efficiency and high-tech renewals
take place in isolated zones/towns?*

Tuesday, 28 July 2020 10:00 - 12:00 AM GMT+2

link to connect: <https://zoom.us/j/93904580716?pwd=ZWlSLy9nRWQ0ZDM5UGR5YkRKk44dz09>
ID meeting: 939 0458 0716 / Password: 667784

Organized by: **University of Seville** - Thermal Energy Engineering Department (TMT-US)

h. 10:00-10:15 | A. ÁLVAREZ / Med-EcoSuRe Project Partner
Spanish Association for the Internationalization and
Innovation of Solar Companies - SOLARTYS
Med-EcoSuRe Project presentation

h. 10:15-10:30 | G.E. GEORGHIU / Berlin Project Coordinator
Department of Electrical and Computer Engineering -
University of Cyprus
Berlin Project presentation

h. 10:30-11:15 | J.L. MOLINA / Med-EcoSuRe Project Partner
University of Seville - Thermal Energy Engineering
Department (TMT-US)
*BLOCK 1. High-tech renewals in public buildings:
AVRA & UNIVERSITY OF SEVILLA*

h. 11:15-11:30 | M. DE LA MANO
Technical expert in Prosume
*BLOCK 2. Technical cases: Energetic communities &
Blockchain*

h. 11:30-11:45 | M. LAZOPOULOU
Mini-grid Specialist in TTA
*BLOCK 2. Technical cases: Rural mini-grids with PV /
hybrid generation*

h. 11:45-12:00 | Debate and conclusion









