

ZenH Balkan

Towards Zero Energy Hospitals in the Balkan Region

Newsletter
Issue 5



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The Project aims to facilitate the implementation of the EU's Energy Performance of Buildings Directive (EPBD), by defining characteristics and standards in terms of zero energy in hospitals (ZenH) in the southern Balkan region. The project will contribute to the improvement of energy efficiency in the construction sector.

The ZenH Project is supported by the INTERREG Balkan-Mediterranean program.

This project is co-financed by the European Union and National Funds



Project Progress

2nd Workshop on “Nearly Zero Energy Hospital Buildings (nZenH)”

The 2nd Workshop on “Zero Energy Hospital Buildings (nZenH)” is part of WP6 - Capacity Building of ZenH Balkan project.

The objectives of the WP6 is to introduce a set of specific objectives, among them:

- Support capacity building of technical staff towards ZEB in public & private sector
- Advance the scientific knowledge towards Zero energy buildings & Hospitals in a Europe wide level
- Inform general public on forthcoming regulations towards near zero energy public & private buildings.



The Workshop on “Nearly Zero Energy Hospital Buildings”, due to Covid restrictions for organizing events with physical presence, was organized as a webinar on the 18th of December 2020.

The Workshop focused on issues of orthological management of the energy data at hospitals, at presentation of the appropriate technologies and systems for hospitals aiming at energy conservation and RES application in order to achieve a zero energy hospital building and also at presenting a methodology of economic assessment of energy renovation based on life cycle cost analysis (LCCA). The Workshop focused on rules for application of these technologies and methodologies at buildings’ energy renovation and on presenting good practice examples with emphasis on their application in hospital buildings.

The Workshop opened by the organiser of the event and co-ordinator of the ZenH Balkan project, professor Argiro DIMOUDI (Democritus University of Thrace, Greece), who welcomed the participants.

At the beginning of the event, an overview of the energy performance of hospital buildings at the South Balkan region was presented based on data collected in the frame of the project from project partners. Project partner shortly presented the energy data from their own country.

Mr Christos Kostadimas, Head of the Technical Division of the 3rd Regional Healthcare Authority in Greece, highlighted the need for a methodological approach in monitoring the energy consumption data and in identifying the most intensive energy sectors in hospital buildings and also presented good practice examples of energy management in hospital buildings. It was stressed that an effective energy management in hospital buildings will be based on a triple aim: Plan - act - react, by proper use of energy consuming installations, regular energy consumption monitoring with daily energy audits, application of preventive and corrective maintenance, use of energy efficient equipment and 'intelligent' systems.

Dr Ingenieur Michalis Karagiorgas, highlighted the main energy conservation measures and RES technologies that are most applicable at hospital buildings and can be used in order to reduce primary energy consumption and target to nearly zero energy hospital buildings. He presented basic technical information about their application and the expected energy savings from each one. Some examples of hospital buildings that applied energy saving measures and/or RES systems were presented. Also, energy efficient systems - air and water energy systems - that successfully applied at big buildings in the tertiary sector and the achieved energy savings were presented as promising technologies for application at hospitals. Mrs Stella Dimitriou and Professor Despina Serghides presented different scenarios of energy saving measures and RES systems for energy refurbishment of hospital buildings, focusing on Cyprus data (hospital building typologies, climatic zones, energy data, appropriate measures and systems, etc) with the aim to achieve nearly zero energy hospital buildings. The scenarios were assessed in terms of energy savings and cost effectiveness.

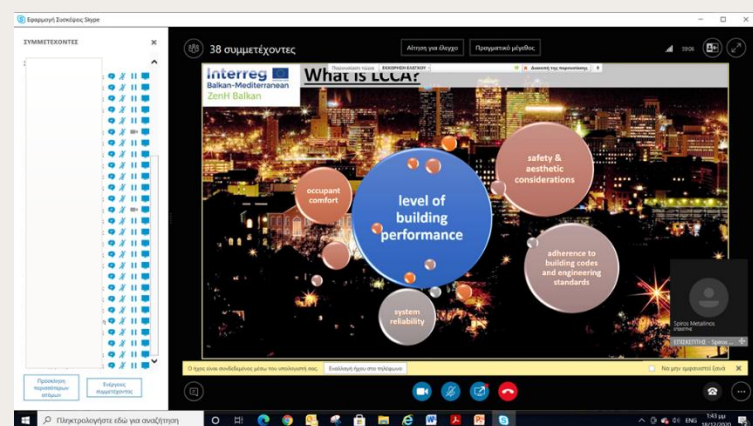
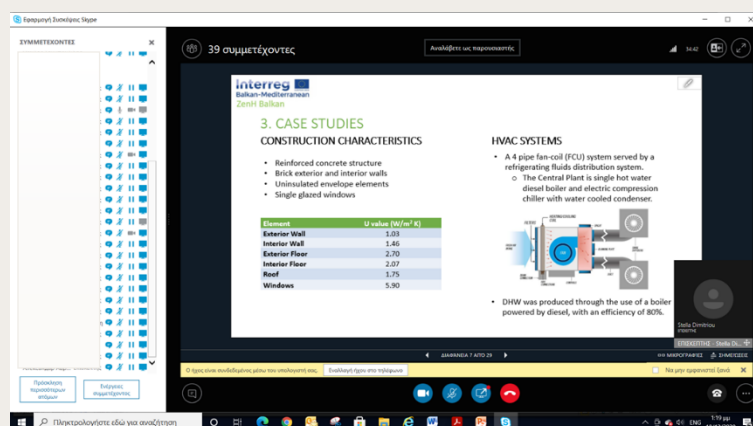
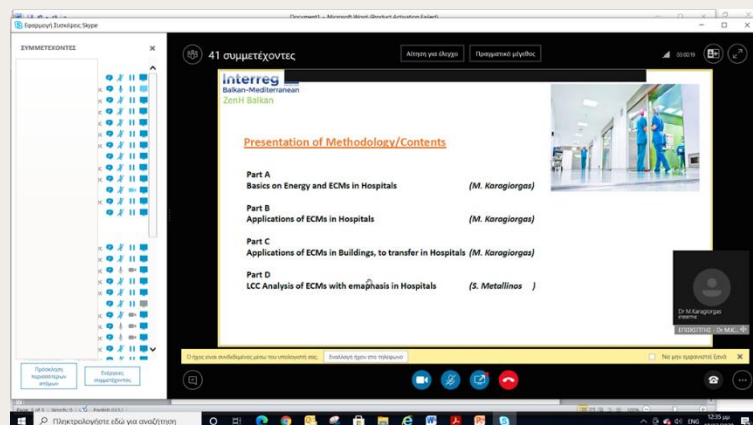
Mr Metallinos, an Economist and LCCA expert, presented the main concepts of the 'Life Cost Cycle Analysis (LCCA)' methodology for economic assessment of interventions in buildings according to 'EU Directive on Public Procurements' (2014/24/EU) and to Annex VI on 'Energy Audits'. The benefits of this methodology were highlighted compared to the 'simple payback period' analysis. The procedure for the LCCA analysis was shortly presented and the main equations for the calculation of the different costs were presented.

The summary of the presentations and the closing remarks to the Workshop was given by Project Co-ordinator, Professor Argiro DIMOUDI (DUTH).

Certificates of attendance were awarded to participants.

The event was attended by 42 participants from Bulgaria, Greece, Albania, Cyprus and the Republic of North Macedonia.

The participants were representatives mainly from health authorities but also from academy community and consulting companies.



Upcoming Events

S/S 2021: Informative session on “POSSIBILITIES OF IMPLEMENTATION OF EE AND RES IN HOSPITALS AND SETTING BENCHMARKS FOR MEETING THE NEAR TO ZERO ENERGY STANDARDS FOR HOSPITALS”, 11 MARCH 2021, Republic of North Macedonia

International Conference “TOWARDS NEARLY ZERO ENERGY HOSPITAL BUILDINGS”, 19 MARCH 2021





International Conference

« Towards nearly Zero Energy Hospital Buildings »

Friday, 19 March 2021

The **Department of Environmental Engineering of Democritus University of Thrace** announces the organization of the **ZenH Balkan project Final Conference** entitled “Towards nearly zero hospitals” that will be held online through Zoom platform **on Friday 19th March 2021 at 10.00 a.m.**

The conference aims to share the knowledge and the experience gained within the project in the field with the participation of speakers from all the partner countries - Greece, Cyprus, Bulgaria, Republic of North Macedonia and Albania. At the same time, invited speakers beyond partner organisations will contribute with their presentations in the further exploration of the main topic.

The language of the Conference is English.

So please **SAVE THE DATE** and **REGISTER** in the link below in order to send you the Zoom link to attend the conference.

<https://forms.gle/HbdNEHo8CJN2jrDS8>

The emails with the link will be sent to all on Wednesday 17th March 2021, so please make sure to register before.

For more information about the topics and the speakers as well as updates on the agenda (to be finalized soon), you may visit the conference website <https://zenhconference.eu/> and the event's page on Facebook <https://fb.me/e/1Aonrcf5A>

Looking forward to share with you the results of our project!

Partners Contacts

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