

ZenH Balkan

Towards Zero Energy Hospitals in the Balkan Region

Newsletter
Issue 2



INSIDE THIS ISSUE

1. The Project
2. 1st Technical Seminar
3. 2nd Technical Seminar
4. Upcoming Events
5. Contacts of the Partnerships

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 programme and its duration is from December 2017 to November 2019.

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



1st Technical Seminar “Solar Heating and Cooling”

Jul 19, 2018 Skopje, Former Yugoslav Republic of Macedonia

On 19.06.2018 in Skopje, Former Yugoslav Republic of Macedonia, the CeProSARD held the Technical Seminar on the subject of “Solar Heating and Cooling” within the INTERREG Balkan - Med project “Towards Zero energy Hospitals in the Balkan Region - ZenH”.

The technical Seminar on “Solar Heating and Cooling” is part of Work package 6 “WP6 - Capacity Building” of ZenH Balkan project.

The aim of the “Solar heating and cooling” technical Seminar was to present technical solutions for implementation of solar collector systems for heating and cooling in buildings with emphasis at hospital buildings.

Among the speakers were project`s coordinator Assoc. Prof. A. Dimoudi (Democritus University of Thrace, Department of Environmental Engineering, Xanthi, Greece), as well as a representative from the Ministry of Health of Former Yugoslav Republic of Macedonia (Civil Eng. V. Andonova). The energy Law and issues of the market liberalization in FYROM was presented by Electr. Eng. L. Dimov.

The speakers were national experts and experts with international experience in their topics.

Technical presentations on different aspects of solar collector technologies (technology advances, certification issues, Dr Drosou V.), solar heating (Mech. Eng. D. Filiposki) and cooling (Dr Oxyzides S.) (design principles, sizing, applications and examples of solar systems for heating and cooling), economics of these systems (Mr. V. Gjorgievski) and a presentation of a refurbished hospital in FYROM incorporating solar collectors (Prof. I. Nasev) were delivered.

The presentations were followed by a discussion on issues raised about the applicability of these systems, priorities and restrictions.



2nd Technical Seminar “Buildings’ Energy Simulation”

13 -14 November 2018, Sofia, Bulgaria

On 13th and 14th of November 2018, Association Sofia Energy Centre (SEC) organised a two days technical Seminar on “Buildings’ Energy Simulation” in Sofia, Bulgaria, within the project “Towards Zero energy Hospitals in the Balkan Region - ZenH Balkan”.

The technical seminar focused on training in building energy simulation models, giving emphasis on the models that will be used in the technical assessment of the hospital buildings’ energy performance in the frame of the current project.

During the 1st day of the technical seminar, Assoc. Professor Argiro Dimoudi (Democritus University of Thrace, Greece), the coordinator of the project, prefaced about the ZenH Balkan Project and architect Evelina Stoykova (Association Sofia Energy Centre (SEC), Bulgaria) analysed the concept of Nearly Zero Energy Buildings.

Dr Simeon Oxyzides, specialist in energy modelling of buildings, highlighted the importance, main benefits and trends in energy modelling of buildings and presented the main topics and procedures in energy modelling. He focused on the main aspects of modelling with the use of the Energy Plus software tool - a modelling tool that will be used in the frame of the project.

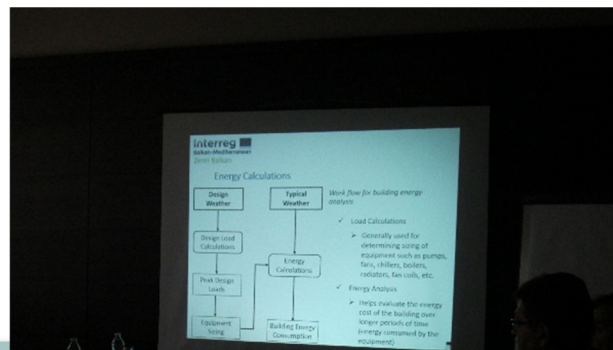
Professor Aris Tsagrassoulis (University of Thessaly, Greece) analysed the main issues of daylighting and lighting assessment in large buildings and especially in hospitals. He presented the design specifications and technical requirements of lighting in hospital buildings, the modelling requirements and procedures for daylighting assessment and lighting requirements’ estimation, giving emphasis at hospital buildings.

Dr Efrosini Giama (Aristotle University of Thessaloniki, Greece), expert in environmental assessment of buildings, discussed the necessity of environmental assessment of buildings, the trends in green building certification and carbon footprint analysis in the building sector.

During the 2nd day of the Seminar, Eng. Zdravko Georgiev (SOFENA) gave an extensive presentation about the main aspects of the energy upgrade of a hospital building in Bulgaria - the University Hospital Tsaritsa Yoanna, ISUL in Sofia - the simulation procedures for assessment of the proposed interventions for energy efficiency and integration of RES technologies.

The methodology for economical appraisal of energy efficiency investments in buildings and project bankability was presented by Mrs Ivanka Pandelieva (SEC).

The presentations were followed by a discussion on issues raised about modelling procedure and software use in buildings.



Upcoming Events

- S/S 2019: 3rd Technical Seminar on “Biomass, CHP and Geothermal Heating and Cooling”, Tirana, Albania
 S/S 2019 2nd Workshop on “Zero Energy Hospitals”, Xanthi, Greece

Partners Contacts

Contact details	
	Democritus University of Thrace Assoc. Prof Argiro DIMOUDI adimoudi@env.duth.gr
	ALBAFOREST, Mehmet Metaj, Exec. Director mehmet.metaj@yahoo.com
	Association Sofia Energy Centre Arch. Evelina Stoykova estoykova@sec.bg
	The Cyprus Institute Prof. Despina Serghides d.serghides@cyi.ac.cy
	CeProSARD Gordana Pecelj, Finance Manager gordana.pecelj@ceprosard.org.mk