

## 2nd Technical Seminar “Buildings’ Energy Simulation”

Dec 24, 2018 Sofia, Bulgaria

On the 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.

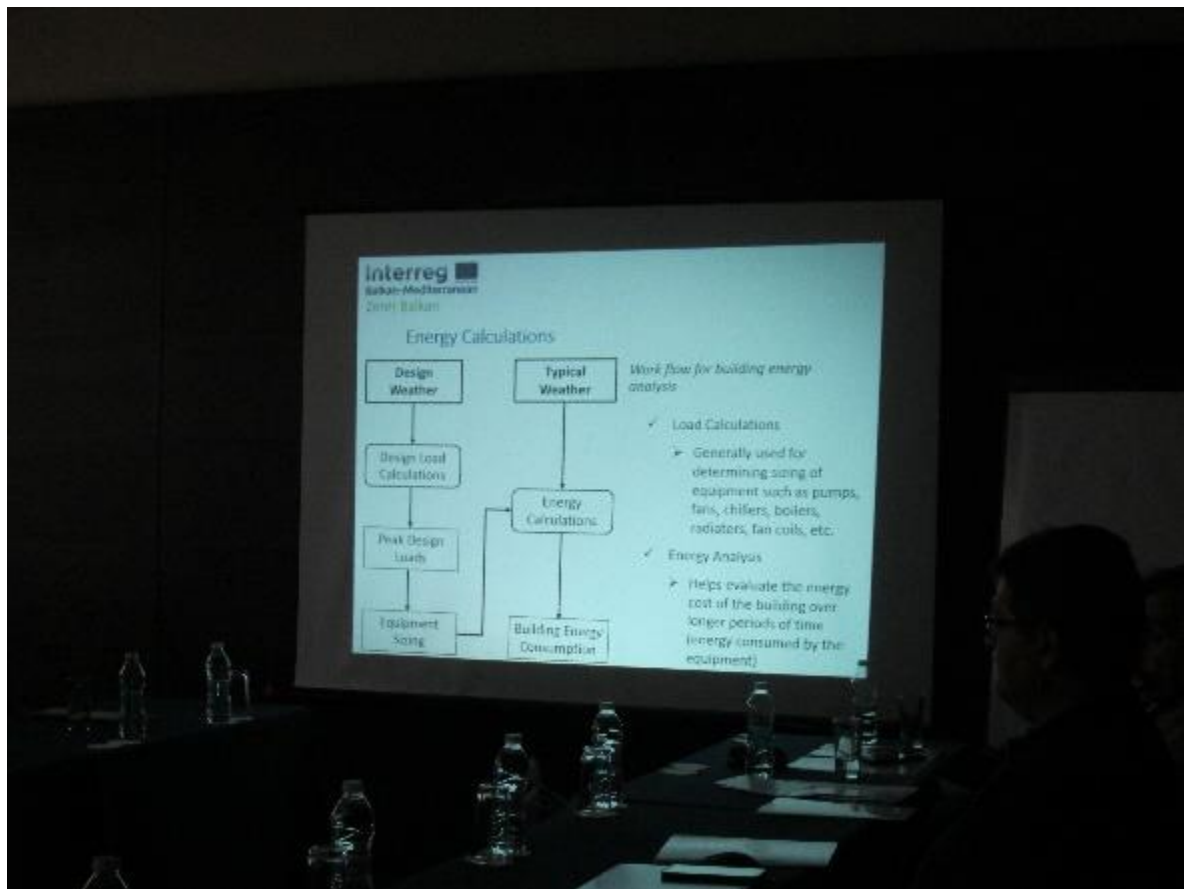
During the 2nd day of the Seminar, Eng. Zdravko Georgiev (SOFENA) gave an extensive presentation about the main aspects of the energy upgrade of a hospital building in Bulgaria - the University Hospital Tsaritsa Yoanna, ISUL in Sofia - the simulation procedures for assessment of the proposed interventions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

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