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Presentation title:	**The Energy Performance of Hospital Buildings in Greece – Towards Zero Energy Buildings**	

Hospitals, as large consumers of energy, need to achieve great reductions in energy consumptions and CO2 emissions for existing as well as new buildings to fulfill upcoming requirements for the European Union Directive on nearly Zero Energy Buildings (nZEB).

Hospitals have a continuous electricity, heating and cooling energy demand because thermal comfort, air quality levels and specialised services for the patients have to be guaranteed without interruptions to avoid discomfort, and to folloew the strict hospital hygiene and infection prevention requirements during the entire year. As a result, hospitals present a great potential for energy and cost savings because the simultaneous demand of energy uses for the entire year allows several actions for energy efficiency improvement to be studied and planned. Although specific attention is given to energy reduction compared to other buildings types the successful implementation of energy saving measures stayed behind in hospitals. Also, in hospitals, less data about energy consumption and building services operation is available.

In this paper, data from the current situation of Greek Hospitals are being presented to analyze and determine the hospitals' energy consumption and energy costs. The expected outputs are to produce benchmarks and design guidelines for ZenH (Zero energy Hospitals), to improve the technical capacity of professional groups and government officials towards the Zero Energy Buildings notion and to describe models for upgrading hospital buildings into ZEB.

CV:	

Dr. Argiro Dimoudi is Associate Professor at the subject 'Science and technology of structures with emphasis on environmental design' at the Department of Environmental Engineering at Democritus University of Thrace (GR).

She has extensive experience on aspects of energy conservation and RES components in buildings, environmental friendly materials, energy regulations and auditing of buildings, microclimate and outdoor spaces bioclimatic design. Her experience is as academic staff, specialized scientific staff at the Ministry of the Environment, researcher at Research Bodies (CIENE-NKUA) and as the Head of the Department of Passive & Hybrid Solar Systems and the Department of Active Solar Systems at the Centre for Renewable Energy Sources (CRES).

She has experience as co-ordinator, project manager and researcher in research, demonstration and non-technological projects on energy and sustainability in buildings and cities.

Member of the Technical Committees of the Technical Chamber of Greece (TEE) for the development of the Technical Guidelines (TG.TCG) in support of the 'National Regulation for Energy Efficiency of Buildings.

Author in several books and papers in international scientific journals, conferences and technical reports.