

Event:

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May 27-29, 2026 - Island of KOS, Greece

#	Aristotelis Tsekouras Consultant Engineer in Sustainable Energy Systems – Energy Auditor	
Title:	Consultant Engineer in GRAND ALPHA – Sustainable Engineering & Consulting	
email:	atsekouras@grand-alpha.gr	
Presentation title:	Healthcare, No Typical Design: Correcting Engineering Failures, Mistakes and bad Practice Through ASHRAE Standards and Resilient Governance.	
Hospitals are energy-intensive and operationally critical buildings, with continuous demand for cooling, heating, domestic hot water, steam and strict indoor environmental control. Their decarbonization cannot rely only on isolated energy-efficiency measures. This presentation explores how healthcare facilities can become active nodes within integrated energy ecosystems. It examines the role of waste heat, surplus heat, surplus electricity, district heating and cooling, open-loop geothermal systems and 5th generation district heating and cooling networks in supporting resilient, low-carbon hospital operation. Special focus is given to heat recovery, prosumer operation, redundancy, high-temperature water-to-water booster heat pumps up to 120°C, and the use of emerging fuels such as biomethane, hydrogen and bio-oil in existing boiler and steam infrastructure. The key message is that hospitals can move beyond being passive energy consumers and become strategic participants in local decarbonization pathways.		
Short CV:		
Consultant Engineer specializing in sustainable energy systems and HVAC projects, with expertise in geothermal, heat recovery, biomass, cogeneration, district heating, scada-bems and hydrogen technologies. Founder of an engineering firm focused on innovative energy solutions and active member of ASHRAE Hellenic Chapter. He participates in European projects on renewable energy, smart grids, and hydrogen applications.		

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CV:

Aristotelis Tsekouras is a Production - Mechanical Engineer with demonstrated experience in design, implementation and monitoring of Energy projects. He got his Master in Engineering from Production Engineering and Management department of Technical University of Crete. He has worked in various engineering firms from 2014 in the fields of turn-key energy projects (geothermal HVAC, heat recovery, district heating, MV substations, scada, e-Mobility, etc). Since 2022 he has introduced his own engineering firm with expertise in sustainable energy projects (Geothermal HVAC, Biomass, Co-generation, District Heating-Cooling, Hydrogen, Energy product design, SCADA-BEMS,) and has long term cooperations with other companies in the fields of Product design (biomass boilers-steam boilers- heat oil boilers, thermal tanks, etc) and EPC projects for commercial and industrial projects. Energy Auditor and Inspector and Consultant on circular economy plans and the carbon footprint of companies for the preparation of ESG reports. Member of the scientific group of the Minoan energy community. Additionally, he is an active engineer active in the Technical Chamber of Greece, with participation in management positions and an active member of the ASHRAE branch in Greece. However, he participates in various European-funded Projects related to Renewable Energy Sources and Hydrogen.