


Event:  
Date:  
Place:

**ENERGY in BUILDINGS - EPIRUS 2023**  
Saturday November 25, 2023  
Hotel Du Lac Ioannina



#	<b>Aristotelis Tsekouras</b> M.Eng. PRODUCTION ENGINEER & MANAGEMENT, TECHNICAL UNIVERSITY OF CRETE CONSULTANT ENGINEER GEOTHERMAL HVAC EXPERT.	
Title:	Sustainable Engineering Consultant at Grand Alpha	
email:	atsekouras@grand-alpha.gr	•
Presentation title:	<b>Is there a sustainable HVAC solution for luxury hotels?</b>	
<p>In this presentation we focus on the sustainability of the hotel sector and how important the impact of energy systems is for their energy transition and finally for ESG scoring. We analyze the alternative systems that can be applied for air conditioning, DHW and pool heating in a luxury resort. Sustainability is the first factor we are asked to cover and at the same time achieve the lowest energy consumption. Simulation models are analyzed on real operating data as well as climatic records, in order to predict the expected consumption and performance of each alternative system. The aim of the presentation is to prove that the engineer has tools and a way of thinking so that he can investigate the ideal option for the respective implementation rather than following simple solutions pitched at vendor trade shows.</p>		
Short CV:		
<p>Consultant engineer specialized in hydronic HVAC systems with geothermal and heat recovery. He has participated in the feasibility study, design, costing, tendering, procurement, execution of technical work, design of automation specifications, commissioning, monitoring, and optimization of many demanding systems. Member of Executive Committee of Technical Chamber of Greece, Eastern Crete section and member of MINOAN ENERGY COMMUNITY's scientific team.</p>		
CV:		
<p>Consultant engineer specialized in hydronic air conditioning systems with geothermal and heat recovery. He holds a diploma from the Faculty of Production Engineering and Management of the Technical University of Crete. It has strong collective action in the field of engineering, environment and energy. He is a fan of renewable energy sources and environmental protection. He has participated in the feasibility study, design, costing, tendering, procurement, execution of technical work, design of automation specifications, startup and parameterization, monitoring and optimization of demanding systems in hotel and other commercial and industrial facilities. At the same time, it is concerned with E-mobility and electric vehicle charging infrastructures in municipalities and businesses. He has also worked as a biomass boiler designer and participates in the construction of hydroponic and conventional greenhouse heating systems, while he is a steam boiler designer for a local manufacturer. 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. Member of Executive Committee, of Standing Committee on Industry and Productive Reconstruction of Standing Committee on Transportation Infrastructure Projects and Traffic Planning, of Technical Chamber of Greece (TEE-TCG) regional section of Eastern Crete.</p>		