

Event:

ENERGY in BUILDINGS – Crete 2026

Date:

Saturday Feb 14, 2026

Place:

Heraklion, Crete



TEE

#	<p style="text-align: center;">Aristotelis Tsekouras Consultant Engineer in Sustainable Energy Systems – Energy Auditor</p>	
Title:	Consultant Engineer in GRAND ALPHA – Sustainable Engineering & Consulting	
email:	atsekouras@grand-alpha.gr	
Presentation title:	How to utilize Waste Heat and Surplus Energy for efficient energy ecosystems	
Short CV:	<p>The energy transition requires the large-scale integration of stochastic renewable energy sources, supported by energy storage solutions, while simultaneously ensuring energy security, system adequacy, and economic efficiency. Recent developments have prioritized energy generation deployment; however, the evolution of energy management and distribution systems has not progressed at a comparable pace, creating structural inefficiencies and operational challenges. Modern energy ecosystems therefore demand resilient, future-proof management frameworks based on intelligent energy management systems, predictive dynamic models, and data-driven control strategies.</p> <p>In the building sector, heating and cooling represent the largest share of total energy demand, highlighting the critical role of thermal energy systems in decarbonization pathways. Effective transformation requires the systematic integration of waste heat recovery, surplus energy utilization through storage and transformation, and the redefinition of buildings as active energy prosumers rather than passive consumers. Centralized infrastructures, such as 5G-DHC networks, provide a robust platform for enabling bidirectional energy flows, sector coupling, and optimized interaction between buildings and energy systems.</p> <p>Σύμβουλος μηχανικός με εξειδίκευση σε πρωτοποριακά συστήματα παραγωγής ενέργειας (Θερμότητα – ηλεκτρισμός), HVAC κεντρικά συστήματα με εξειδίκευση σε Γεωθερμία Ανοιχτού Βρόχου, Ανάκτηση Θερμότητας καθώς και σε αξιοποίηση Βιομάζας, Συμπαραγωγής, Τηλεθέρμανση, SCADA-BMS και αξιοποίηση νέων μορφών ενέργειας όπως το Υδρογόνο. Ιδρυτής γραφείου συμβούλευτικής μηχανικής με έμφαση στις καινοτόμες λύσεις και ενεργό μέλος της ASHRAE (Hellenic Chapter). Συμμετέχει σε Ευρωπαϊκά Ερευνητικά έργα με αντικείμενο τις ΑΠΕ, τα Έξυπνα Δίκτυα και τις Εναλλακτικές Μορφές Ενέργειας.</p>	
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 degree 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	

Event:

ENERGY in BUILDINGS – Crete 2026

Date:

Saturday Feb 14, 2026

Place:

Heraklion, Crete



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.