

ENERGY in BUILDINGS Northern Hellas 2025

9:00	9:30	Registration & Welcome	
9:30	10:00	Plenary - Open Ceremony - Welcome Presentations Marios Tsakiris, President ASHRAE Hellenic Chapter Alkis Triantafyllopoulos, RVC ASHRAE Region XIV Chrysostomos Bouras, President Elect ASHRAE Hellenic Chapter	
10:00	11:30	<u>Session 1.1 - Infrastructure for Cities and Sustainability</u>	<u>Session 1.2 - New Policy Developments and Regulatory</u>
10:00	10:30	A Systematic Approach for Assessing Climate Resilient Buildings and Cities Constantinos A. Balaras, PhD Research Director, Institute of Environmental Research and Sustainable Development, National Observatory of Athens, Greece	New F-Gas 2024/573 Regulation – Low GWP and Natural Refrigerants Evangelos Theodosatos, MSc, MBA Head, Department of Chemical Refrigerant Applications, ELTON Group
10:30	11:00	The Impact of Surrounding Structures on Energy performance Simulation of a Primary School in Niš Marko Ignjatovic, PhD Associate Professor, University in Niš, Faculty of Mechanical Engineering in Niš, Serbia	Developments in the Energy Building Framework at EU and national level Alexandra Kornilaki, Attorney at Law, LL.M Associate KBVL Law Firm – Member of Deloitte Legal Network
11:00	11:30	Exploring the cost-optimal of motor traffic street lighting infrastructure over a 20year period: First results Christina Scandali, Dipl Arch, MSc UCL PhD student, Hellenic Open University	Contribution of Industry in the energy transition - Interventions for Industrial Decarbonization Margarita Asimakopoulou Journalist, Athens, Greece
11:30	12:00	Monitoring Platforms for Optimizing Machinery Reliability and Availability Georgios N. Bamplenis MsEng - MA Honorary Commander of HNLC, Marine Engineer	ASHRAE Standard 100 for Energy and Emissions Building Performance Standard for Existing Buildings Chrysostomos Bouras, Mechanical Engineer, MBA, MASHRAE Business Development Manager at ESCO Partners & President Elect of ASHRAE Hellenic Chapter

12:00	12:30	COFFEE BREAK
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Hellenic Chapter

ENERGY in BUILDINGS Northern Hellas 2025

12:30	13:00	<u>Session 2.1 - Sustainability in Buildings</u>	<u>Session 2.2 - Industrial Decarbonization</u>
12:30	13:00	Servitization: Delivering Effective Energy and Cooling Infrastructure Will Sibia BE (Mech), MSc Founder & CEO Urban systems urbs AB	Energy Savings through thermal storage application in dairy industry Dimitris Dalavouras, Mechanical Engineer, MBA General Refrigeration
13:00	13:30	Future of Buildings Chari Toloumis, MSc Siemens	Electrification of heating in industries Theodoros Venetis, Mechanical Engineer, MSc Managing Director Trane Technologies , TRANE HELLAS
13:30	14:00	Historic Buildings and Energy: Challenges, Compromises and Opportunities Milena Blagojevic, PhD Prof. Arch.Department of Design, LABA, Firenze, Italy	Extreme low charge refrigeration systems with ammonia R-717 Stelios Bikos Chemical Engineer, PhD Consultant to Management AT&C Agencies Ltd, Athens, Greece
14:00	15:00	LUNCH BREAK	



Hellenic Chapter

ENERGY in BUILDINGS Northern Hellas 2025

15:00	18:00	<u>Session 3.1 - Research Developments in the Built environment</u>	<u>Session 3.2 - Training - Pumps and Pumping Stations for Municipal Water Networks</u>
15:00	15:20	Giannis Papadopoulos*, Evangelos Tolis, Giorgos Panaras "Combined use of experimental and simulation methods for the assessment of thermal comfort and IAQ: The case of office buildings", Mechanical Engineering Dpt., University of Western Macedonia (20min)	<p>How Centrifugal Pump Suction Works</p> <p>Xenofon Damianos, BEng Electrical Engineer, M.Sc. Energy Systems Engineering</p> <p>Knowledge Manager, BEng, MSc, IDATOR SA</p>
15:20	15:40	Leonidas Zouloumis1*, Nikos Ploskas2, Giorgos Panaras1 "Towards a combined method for the optimum management of building demand and supply thermal loads", 1 Mechanical Engineering Dpt., University of Western Macedonia, 2 Electrical and Computer Engineering Dpt., University of Western Macedonia (20min)	
15:40	16:00	Konstantinos Nikolaou*, Kostas Balaras, "Field Assessment of Indoor Environmental Quality and Energy Consumption in a Hellenic Dwelling", Hellenic Open University (20min)	<p>Collection and circulation of sewage: Facing latest challenges</p> <p>Achileas Patsiouras, Dipl Mechanical & Aeronautical Engineer (Patras University), Executive M.B.A. (AUEB)</p> <p>Applications, Marketing & Training Engineer, Wilo Hellas SA</p>
16:00	16:40	<p>P.Kagiopoulou*, I.Kyrgidou, V. Kyriakou "Environmental certification of buildings in Greece: Recording, analysis of qualifications and examples" Department of Architecture, Aristotle University of Thessaloniki (5min)</p> <p>E.Zikopoulou*, A.Linardou, V. Kyriakou "Water routes in Velvendos, Kozani: Traditional hydro-powered installations along streams and exploitation proposals", Department of Architecture, Aristotle University of Thessaloniki (5min)</p>	

		<p>I. Chatzitheodorou*, V. Kyriakou "Containers as a means of construction: From history to modern examples of buildings and uses" Department of Architecture, Aristotle University of Thessaloniki (5min)</p> <p>M.Tomasovits, S.Zerefos, A.Tsangrassoulis, and L.Doulos, "Methods for assessing buildings' façade lighting solutions in respect to light pollution" Hellenic Open University (5min)</p>	<p>Recovery and Reuse of water from Wastewater treatment</p> <p>Nikos Kalampalikis, Mechanical Engineer</p>
16:40	17:00		WWTP Techs, Owner

ROUND TABLE

POSTER SESSION (Room A)

0		Dimitrios Kapenis, Giannis Papadopoulos*, Giorgos Panaras Mechanical Engineering Dpt., University of Western Macedonia	Investigation of the operation of a custom-built environmental chamber, regulating thermal comfort and air quality conditions
1		Giannis Papadopoulos*, Evangelos Tolis, Giorgos Panaras Mechanical Engineering Dpt., University of Western Macedonia	Combined use of experimental and simulation methods for the assessment of thermal comfort and IAQ: The case of office buildings
2		Leonidas Zouloumis1*, Nikos Ploskas2, Giorgos Panaras11 Mechanical Engineering Dpt., University of Western Macedonia 2 Electrical and Computer Engineering Dpt., University of Western Macedonia	Towards a combined method for the optimum management of building demand and supply thermal loads
3		V. Kilis1*, G. Tsellis1, N. Ploskas2, G. Panaras11 Mechanical Engineering Dpt., University of Western Macedonia 2 Electrical and Computer Engineering Dpt., University of Western Macedonia	Optimization of multi-energy systems design in residential buildings
4		Konstantinos Nikolaou, Kostas Balaras Hellenic Open University	Field Assessment of Indoor Environmental Quality and Energy Consumption in a Hellenic Dwelling
5		Christina Scandali, S.Zerefos, A.Tsangrassoulis, and L.Doulos Hellenic Open University	Exploring the cost-optimal of motor traffic street lighting infrastructure over a 20year period: First results

6	Sourdi Konstantina, Niki MatsoukiHellenic Open University	Effect of daily office activities on indoor pollutant concentrations in a single-family home
7	M.Tomasovits, S.Zerefos, A.Tsangrassoulis, and L.DoulosHellenic Open University	Methods for assessing buildings' façade lighting solutions in respect to light pollution
8	Maria Symeonidi, Nikos SkandalosHellenic Open University	Energy Performance and Retrofitting of an Existing Stone House in Karditsa
9	Xristina Dimitriadou, Nikos SkandalosHellenic Open University	Energy efficiency and sustainability of wooden buildings: Case study
10	Kostas Virtsionis ¹ , Giorgos Pantelidis ² , Platon Pallis ³ Hellenic Open University, 2 Mechanical Engineer MSc, EUREM, Hellenic Chapter ASHRAE, Athens, Greece, 3 National Technical University of Athens	Investigation of the parameters to determine the use of an air conditioning system with simultaneous heating and cooling
11	Zikopoulou Eleni, Linadrou Anna, Vassiliki Kyriakou Department of Architecture, Aristotle University of Thessaloniki	Water routes in Velventos, Kozani: Traditional hydro-powered installations along streams.
12	Alexandrou Georgios, Vassiliki Kyriakou Department of Architecture, Aristotle University of Thessaloniki	Existing building stock. An obstacle or an opportunity for achieving the goal of sustainable development?
14	Chatzitheodorou Ismini, Vassiliki Kyriakou Department of Architecture, Aristotle University of Thessaloniki	Reuse of containers as a building medium, aiming to sustainability and energy efficiency
15	Kagiopoulou Xenia - Kyrgidou Ioanna, Vassiliki Kyriakou Department of Architecture, Aristotle University of Thessaloniki	Environmental certification of buildings in Greece: a recording and analysis of qualifications and examples
16	Pantelidi Virginia , Vassiliki Kyriakou Department of Architecture, Aristotle University of Thessaloniki	Integration of photovoltaic systems into existing building shells
17	Skarparis Ioannis , Vassiliki Kyriakou Department of Architecture, Aristotle University of Thessaloniki	Low carbon footprint materials: the road to sustainable construction
18	Tafilis Lambros, Niki MatsoukiHellenic Open University	Effect of daily household activities on indoor pollutant concentration