

Event:

## ENERGY in BUILDINGS – Northern Hellas 2025


Date:

Saturday February 22, 2025

Place:

Thessaloniki, Macedonia - Hellas



#	<b>Constantinos A. Balaras</b> Dr Mechanical Engineer, FASHRAE	
Title:	Research Director, Institute for Environmental Research & Sustainable Development, National Observatory of Athens, Greece	
email:	costas@noa.gr	•
Presentation title:	<b>A Systematic Approach for Assessing Climate Resilient Buildings and Cities</b>	
<p>Urban areas are known to be among the main contributors to climate change worldwide, while at the same time these areas are especially at risk from the impacts of climate change. Accordingly, adaptation measures are necessary to address change. This ongoing European collaborative work facilitates climate change adaptation and promotes disaster risk prevention and resilience, taking into account eco-system based approaches. The main aim is to facilitate municipalities and public authorities with assessing and managing climate risk of buildings and cities and improving adaptation capacities of Mediterranean cities through the implementation of holistic, integrated, multi-scale and systemic approaches.</p>		
Short CV GREEK:		
<p>Μηχανολόγος Μηχανικός, Διευθυντής Ερευνών στο Ινστιτούτο Ερευνών Περιβάλλοντος και Βιώσιμης Ανάπτυξης στο Εθνικό Αστεροσκοπείο Αθηνών. Πρόσφατες δραστηριότητες σε θέματα εξοικονόμησης ενέργειας, αειφορία και απανθρακοποίηση κτιρίων και πόλεων. Ο Δρ Μπαλαράς είναι ASHRAE Fellow και αυτή την περίοδο είναι μέλος του Τεχνολογικού Συμβουλίου της ASHRAE, μέλος της μόνιμης επιτροπής ανάπτυξης του νέου προτύπου της ASHRAE 240P για τον υπολογισμό των εκπομπών από την κατασκευή και τη λειτουργία των κτιρίων, και της Τεχνικής Επιτροπής 6.7 για την Ηλιακή Ενέργεια και άλλες ΑΠΕ.</p>		
Short CV EN:		
<p>Mechanical engineer, research director at the Institute for Environmental Research and Sustainable Development, in the National Observatory of Athens, Greece, a public research organization. Active in the areas of high performance sustainable buildings and decarbonization, sustainable cities, and environmental impact of buildings. ASHRAE Fellow and currently serving on ASHRAE Technology Council, SPC240P proposed standard for calculating GHG emissions, and TC 6.7 on Solar and Other Renewable Energies.</p>		

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CV:

Mechanical engineer, research director at the Institute for Environmental Research and Sustainable Development, in the National Observatory of Athens, Greece. Over 30 years of professional experience and R&D in the area of Renewable Energy Sources -Energy Conservation. Active in the areas of high performance sustainable buildings and decarbonization, sustainability assessment of buildings-neighborhoods-cities, thermal and solar applications, building energy audits-diagnosis and retrofitting, environmental impact of buildings, solar air-conditioning. Instrumental in the national EPBD transposition efforts. Current group activities focus on building typologies (TABULA & EPISCOPE) and Hellenic building stock analysis prioritizing refurbishment actions, collection of real energy consumption data from dwellings and behavioral role of occupants, sustainable neighborhoods and cities, decarbonization of buildings, operational and embodied energy/carbon intensities. Participated in over 60 R&D and demonstration projects financed by the European Commission, national ministries and organizations, and the private sector, with his research resulting in over 350 archival journal papers, books and conference proceedings. Served on ASHRAE Board of Directors as DAL (2007-10), Society Vice President (2011-13), and DRC Region XIV – Europe (2017-20), and serves on several Standards and Technical Committees. ASHRAE Fellow, recipient of ASHRAE Exceptional Service Award (ESA), ASHRAE John F. James International Award, ASHRAE Distinguished Service Award (DSA). Member of the Hellenic Technical Chamber as a Professional Engineer. Currently serving on ASHRAE Technology Council, Nominating Committee, SPC240P proposed standard for calculating GHG emissions, and TC 6.7 on Solar and Other Renewable Energies. More info: <https://groupenergyconservation.com/>  
<https://www.facebook.com/GRoupEnergyConservation>  
<https://www.linkedin.com/in/costasbalaras/>  
<https://www.researchgate.net/profile/Constantinos-Balaras>