


Event:
Date:
Place:

ENERGY in BUILDINGS - NORTHERN HELLAS 2024

Saturday February 17, 2024
Thessaloniki, Macedonia



#	Constantinos A. Balaras Dr Mechanical Engineer, FASHRAE	
Title:	Research Director, Institute for Environmental Research & Sustainable Development, National Observatory of Athens, Greece	
email:	costas@noa.gr	•
Presentation title:	ASHRAE 240P Evaluating GHG and Carbon Emissions in Building Design, Construction and Operation	
<p>The buildings sector is the single most important end-user of final energy in the European Union and a significant contributor to carbon and greenhouse gas (GHG) emissions. The presentation will focus on an overview of the ongoing work to develop a new ASHRAE standard to provide a methodology to quantify and document GHG emissions associated with buildings, building systems, and building equipment and their sites over their life cycle. The proposed ASHRAE Standard 240P will provide minimum requirements for the quantification of embodied and operational GHG emissions associated with buildings, and their sites. However, the standard will not set benchmarks or establish levels of building performance. To complement this need, the presentation will also review available data resources for direct building emissions and simple estimates that can be used to estimate and project annual emissions for indirect emissions from the use of electricity in the European buildings sector.</p>		
Short CV:		
<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, building energy audits & diagnosis, 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/>
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