Event: **Energy in Buildings Epirus Conference 2026**
Date: Saturday November 28, 2026
Place: Hotel DuLac, Ioannina, Greece

ASHRAE Hellenic Chapter

| # | **Constantinos A. Balaras**<br>Dr Mechanical Engineer, FASHRAE |  |
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| Title: | Research Director, Institute for Environmental Research & Sustainable Development, National Observatory of Athens, Greece |
| email: | costas@noa.gr |
| Presentation title: | **ASHRAE Standard 240P - Whole Life Cycle Analysis to Quantify Greenhouse Gas Emissions in Building Design, Construction, and Operation** |

The buildings sector is the single most important end-user of final energy in the European Union and contributor to direct and indirect carbon and greenhouse gas (GHG) emissions. The presentation focuses on a new ASHRAE standard that is being developed 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 presentation will also review available data resources on emission factors in line with the new Energy Performance of Buildings Directive (EPBD) on whole life cycle global warming potential.

Short CV (EN) :

Dr Balaras is a mechanical engineer, research director with the Group Energy Conservation at the Institute for Environmental Research and Sustainable Development, in the National Observatory of Athens, Greece. He has over 4 decades of professional experience and R&D in the area of Renewable Energy Sources -Energy Conservation in buildings and is active on decarbonization of the built environment, sustainability and resilience assessment of buildings-neighborhoods-cities, whole life carbon analysis, and building stock modeling. He has served on the ASHRAE Board of Directors as Director-At-Large, Director and Regional Chair of the European Region, and Society Vice President. He is an ASHRAE Fellow, and recently received the ASHRAE Louise & Bill Holladay Distinguished Fellow Award. Dr Balaras is a member of ASHRAE SPC 240P and SPC 189.1, Chair of TC6.7 (Solar and Other Renewable Energies) and member of TC2.8 (Building Environmental Impacts and Sustainability).

Short CV (GR) :

Ο Δρ. Κωνσταντίνος Α. Μπαλαράς είναι Μηχανολόγος Μηχανικός, Διευθυντής Ερευνών με την Ομάδα Εξοικονόμησης Ενέργειας στο Ινστιτούτο Ερευνών Περιβάλλοντος & Βιώσιμης Ανάπτυξης του Εθνικού Αστεροσκοπείου Αθηνών. Έχει πάνω από 4 δεκαετίες επαγγελματικής εμπειρίας και έρευνας στον τομέα της Εξοικονόμησης Ενέργειας στα κτίρια, και ασχολείται με θέματα σχετικά με την απανθρακοποίηση του δομημένου περιβάλλοντος, καθώς και με την ανάπτυξη συστημάτων αξιολόγησης της αειφορίας και της ανθεκτικότητας, ανάλυση κύκλου ζωής και μοντελοποίηση του κτιριακού αποθέματος. Έχει θητεύσει στο Διοικητικό Συμβούλιο της ASHRAE ως Αντιπρόεδρος της ASHRAE, Director at Large, και Director Regional Chair της

Ευρώπης. Είναι ASHRAE Fellow, και πρόσφατα του απονεμήθηκε η διάκριση ASHRAE Louise & Bill Holladay Distinguished Fellow Award. Είναι μέλος των επιτροπών προτύπων SPC 240P και SPC 189.1 της ASHRAE, Πρόεδρος της Τεχνικής Επιτροπής για την Ηλιακή Ενέργεια και Άλλες Ανανεώσιμες Πηγές Ενέργειας (TC6.7) και μέλος της τεχνικής επιτροπής για τις Περιβαλλοντικές Επιπτώσεις και τη Βιωσιμότητα των Κτιρίων (TC2.8).

CV:

Dr Balaras is a mechanical engineer, research director with the Group Energy Conservation 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 on Renewable Energy Sources -Energy Conservation. Active in the areas of high performance sustainable buildings and decarbonization, sustainability and resilience 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. 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 and resilient neighborhoods and cities, decarbonization of buildings, operational and embodied energy/carbon intensities, whole life carbon analysis. 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). ASHRAE Fellow, recipient of ASHRAE Louise & Bill Holladay Distinguished Fellow Award, ASHRAE Andrew T. Boggs Service Award, 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 Society Rules Committee, ASHRAE Foundation as a Trustee, ASHRAE Nominating Committee, SPC240P proposed standard for calculating GHG emissions, and several technical committees including TC 2.8 Building Environmental Impacts and Sustainability 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