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Dr Balaras is a mechanical engineer, leader of Group Energy Conservation and research director at IERSD-NOA, a public research lab in Greece, where he has been working since 1995. Previously he worked as a research assistant and consulting engineer in the United States, and in Greece as a professional mechanical engineer in design, construction, and supervision of buildings and industrial facilities, as well as a scientific associate and lecturer at various educational institutions. His research interests are in the areas of energy conservation, high performing buildings and decarbonization, assessment of sustainability and resilience to climate change impacts of buildings-neighborhoods-cities, building energy audits-diagnosis and retrofitting, energy policy, embodied energy/carbon, indoor environmental quality, solar air-conditioning. He has participated in over 60 projects financed by the European Commission, national Ministries and organizations, and the private sector. Instrumental in the national EPBD transposition, the development of KENAK, the technical guidelines (TOTE) and the software in collaboration with TEE. Author in about 170 papers published in international and national peer reviewed journals and books and he has participated in about 180 conferences. Fellow ASHRAE, Past Society Vice President (2011-13), past DRC Region XIV (2017-20), past DAL (2007-10). Fellow ASME, EUR ING and registered PEng (member TEE). More information: <https://www.iersd.noa.gr/staff/ereynites/dr-mpalaras-konstantinos/>
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Selected Publications

1. C.A. Balaras, Z. Asimakopoulos, E.G. Dascalaki, P. Pallis, How smart are European buildings? Case studies in Greece, [Science and Technology for the Built Environment](#), (2026).
2. K.G. Droutsas, S. Kontoyiannidis, C.A. Balaras, E.G. Dascalaki, A.A. Argiriou, Representative typology of buildings: case study of hellenic non residential buildings, [Energy Sources, Part A: Recovery, Utilization, and Environmental Effects](#), 47(2), 2037789, (2025).
3. C.A. Balaras, E.G. Dascalaki, M. Patsioti, K.G. Droutsas, S. Kontoyiannidis, T. Cholewa, Carbon and Greenhouse Gas Emissions from Electricity Consumption in European Union Buildings, [Buildings](#), 14(1), 71, (2023).
4. C.A. Balaras, K.G. Droutsas, E.G. Dascalaki, S. Kontoyiannidis, A. Moro, E. Bazzan, P. Borgaro, Auditing and Rating Sustainability of Mediterranean Buildings, Neighbourhoods and Cities, [Energies](#), 17(1), 82, (2023).
5. E.G. Dascalaki, C.A. Balaras, S. Kontoyiannidis, K.G. Droutsas, Modeling Energy Refurbishment Scenarios for the Hellenic Residential Building Stock Towards the 2020 & 2030 Targets, [Energy & Buildings](#), Vol. 132, p. 74-90, (2016).