


Event:
Date:
Place:

ENERGY in BUILDINGS – Northern Hellas 2019

Saturday May 11, 2019

Thessaloniki, Hellas



#	Agis Papadopoulos Dr. Mechanical Engineer	
Title:	Professor, Dept. of Mechanical Engineering, Aristotle University Thessaloniki, Thessaloniki, Greece	
email:	agis@eng.auth.gr	•
Presentation title:	Zero Energy Buildings in Smart Cities: The Next Challenge	
<p>It has been quite a long way from the 'happy energy eaters' of the 1960s to the Zero and Nearly Zero Energy Buildings required by contemporary regulations. The way has been paved by intensified, systematic developments, of an advanced, and experimentally well validated, interdisciplinary theoretical background, by its incorporation in the syllabi of most engineering and architectural university courses and by a legislative framework that transcended national regulations and standards offering European directives and harmonized European standards.</p> <p>The successive, ever tightening regulations act as driving forces for the development of effective insulating materials, airtight buildings and smart façades, the highly efficient HVAC and the predictive BAC systems has reached an impressive degree of maturity. Furthermore, established RES technologies have matured, allowing for higher efficiencies at reduced costs, wind generators and PVs being good examples for this. At the same time, novel RES technologies, like hybrid PVT systems and micro wind generators offer more flexibility, as they are being scaled down and become more cost effective. Significant progress has been made in most forms of storage technologies, from batteries to fuel cells, which makes storage much more efficient and effective on the transmission and distribution support and on the response and reserves' service level.</p> <p>We have hence a point, where working on a building's level is not enough. The integration of buildings as energy platforms in the energy networks of the urban environment, the utilization of smart meters and of responsive energy management schemes and the holistic approach of supporting sustainable mobility are challenges that have to be met on the road towards resilient, low-carbon cities.</p>		

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CV:

Agis M. Papadopoulos finished the German School of Thessaloniki. He obtained his Diploma in Mechanical Engineering from the Aristotle University Thessaloniki in 1989, his Master of Science in Energy Conservation and the Environment from Cranfield University (UK), in 1991, and his Doctorate in Mechanical Engineering, specializing on solar thermal systems, from the Aristotle University Thessaloniki in 1994.

Since 1998 he is Professor at the Department of Mechanical Engineering of the Aristotle University Thessaloniki, Greece. His main research interests lie in the fields of (a) Energy efficiency and integration of energy systems in buildings, (b) Energy resources economics and (c) Elaboration, monitoring and evaluation of legislative and regulatory measures to promote Energy Efficiency and Renewable Energy actions. Since 2013 he is Director of the Process Equipment Design Laboratory.

He has coordinated more than 60 national and international research projects with a budget of more than 6 M€ and authored or co-authored more than 115 papers published in peer reviewed journals and 260 papers in conference proceedings.

He is Editor-in-Chief of the International Journal of Sustainable Energy, Vice Editor-in-Chief of the Advances in Building Energy Research journal and Editorial Board Member in several other journals.

He was a Board Member of the Hellenic Regulation Authority for Energy (RAE), of the AHEPANS General Hospital of Thessaloniki, Greece, and also a national representative to the EU 6th and 7th Framework Programme, on Research and Innovation and on the Ideas - Specific Programme Single Configuration.

He has worked as an expert for a series of international consulting projects, in the fields of analyzing and implementing energy efficiency and RES policies in Cyprus, Eastern Europe, Egypt and Central Asia.

He has been a Visiting Professor at the University of Cyprus and is currently a Visiting Professor at the International Hellenic University, Greece, and at the Technical University of Hamburg, Germany.

Between 2014 and 2018 he was Vice-Chairman of the Governing Board of the Open University of Cyprus. Since 2018 he is Board Member of the Open University of Cyprus.