


Event:  
Date:  
Place:

## Energy in Buildings Athens Conference 2023

Saturday November 11, 2023

Grand Hyatt Athens, Hellas



#	<b>George Papachristou</b> Sustainability Consultant, MASHRAE, MCIBSE, MEng, MSc, MRes	
Title:	Principal Sustainability Consultant at Hoare Lea, Manchester, United Kingdom	
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Presentation title:	<b>Introduction to Net Zero Carbon</b>	
<p>Climate change poses the greatest challenge to modern civilization, and despite decades of warnings, delayed action has led to what we now recognize as a climate crisis. The urgency of this crisis requires a transition to a 'net zero carbon' (NZC) economy. This presentation will provide an overview of the motivations driving the need for NZC and the current policies in place. The question at hand: Are we are doing too little, too late?</p> <p>Within this context, I will delve into the sources of carbon emissions, focusing on the built environment. What exactly constitutes a net zero carbon development, and how can we effectively design one?</p> <p>Furthermore, the presentation will highlight the limitations of current methodologies used to assess energy efficiency in measuring actual performance. I will examine the increasing significance of embodied carbon and the shift from a 'design for compliance' approach to a 'design for performance' paradigm.</p> <p>Finally, the impact of the decarbonization of the grid and the role of carbon offsets are addressed in achieving a net zero carbon future.</p>		
Short CV:	<p>George Papachristou is a principal sustainability consultant working for Hoare Lea, a leading engineering consultancy and a part of the Tetra Tech High Performance Buildings Group.</p> <p>His expertise lies in net zero carbon, thermal comfort and building performance simulation, with experience that spans both academia and industry. He is a Low Carbon Energy Consultant (LCEA) and a NABERS UK accredited assessor.</p>	

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CV:

George Papachristou is a principal sustainability consultant working for Hoare Lea, a leading engineering consultancy and a part of the Tetra Tech High Performance Buildings Group. His expertise lies in net zero carbon, thermal comfort and building performance simulation.

As an experienced sustainability consultant, George has worked across a wide variety of sectors including commercial, residential, education, healthcare and aviation. His portfolio includes projects such as the restoration of the Palace of Westminster, Manchester Airport and several office developments across the UK.

George holds an MEng in Civil Engineering from Aristotle University of Thessaloniki, as well as an MSc in Low Carbon Building Design and Modelling and an MRes in Energy Demand Studies from Loughborough University. He is also a Low Carbon Energy Consultant and a NABERS UK accredited assessor.

George serves as a committee member of the ASHRAE UK chapter and an honorary treasurer of the CIBSE Northwest region. As a member of the CIBSE Building Simulation group, he has been involved in recent and upcoming publications, including the CIBSE-LETI Climate Emergency Retrofit Guide.