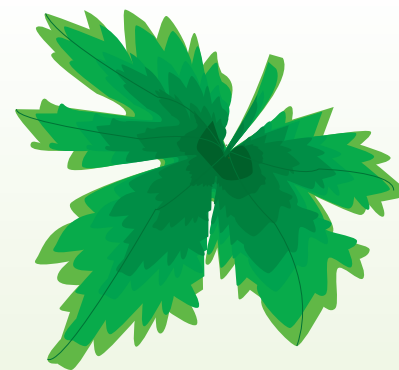


Delivering Low Carbon Buildings in Hong Kong



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Abstract

In today's world, few will doubt that climate change is the greatest challenge to the sustainability of our planet. It is a problem so immense that it can radically alter our world and the way we live in it. In the last few decades, architects, planners and engineers have been actively engaged in applying innovative ideas in low and zero carbon building projects that aims to reduce emissions and mitigate global warming; from the Beddington Zero Energy Development, to the recent Zero Energy House. During this process of design, engagement and implementation, a great deal of knowledge has been amassed. When applied to tall buildings, however, these low carbon technologies have created real challenges for the designers to realise.

In this talk we will discuss some of the relevant issues and solutions when delivering low carbon buildings for tall buildings. We will share our experiences on addressing the challenges and opportunities unique to our built environment.

Speaker

Ir Dr. Vincent Cheng is an Associate Director of Ove Arup & Partners Hong Kong, in charge of building sustainability development of the East Asia Region. He specialises in sustainable master planning and building design, green code formulation, LEED assessment, life-cycle analysis and Air Ventilation Assessment (AVA), and has extensive experience on master planning projects and government consultancy studies, including the formulation of building regulation on Lighting and Ventilation, the CEPAS (BD's code on green building assessment), life cycle assessment tools and District Cooling System of Kai Tak Development for EMSD and AVA assessment methodology for PlanD. He has also been involved in more than 40 LEED and BEAM projects in Hong Kong and the region, including the most recent Samsung Green Tomorrow, a zero energy house project in Korea.

Since 2008, Dr Cheng has been servicing the Hong Kong Professional Green Building Council (PGBC) as a council member and advised the government and the professionals on various sustainable building issues. Currently, he is also sitting in the advisory committee of School of Energy and Environment, The City University of Hong Kong, advising the development of the School on its teaching and R&D.

