

(3) Deep Energy Saving and Other Innovative Green Measures for Commercial Buildings in Hong Kong, Mainland China and Overseas

Session Organiser: Swire Properties Ltd.

Session 2.7

SESSION OUTLINE

Electricity use in building remains the largest source of local carbon emission in Hong Kong, accounting up to 63% of the total emission. Enhancing energy efficiency in our new and existing building stocks becomes crucial to our commitment in meeting Hong Kong's carbon target and also fulfilling both Hong Kong's Climate Action Plan 2030+ and Energy Saving Plan 2015-2025+.

With Gross Floor Area of 27.2 million square feet, Swire Properties recognize the potential significant contribution it can make to our climate. It starts its energy saving journey as early as 2001 with firm determination, clear vision, professional knowledge, researches and use of design tools. It strives to achieve the committed targets at the outset through concerted efforts of the whole team at both design and operational stages.

In this parallel session, we deep dive into our long-term energy saving strategy and practice, ranging from high-level management system to day-to-day data analysis over building services systems in Hong Kong and mainland China. Our ten-year collaboration with Tsinghua University contributes to various successful energy efficient case study. The knowledge accumulated also join together with advanced technology and best practices brought up by top-tier consultancy firm to implement in our new building. These are also demonstrated by another case study in Japan. Going beyond energy efficiency, the total package of 'multiple benefits' derived from green sustainable building will also be discussed.

SESSION CHAIR

Benny AU, Sustainable Development Manager, Swire Properties Ltd., Hong Kong SAR

SPEAKERS AND PRESENTATION TOPICS

- 1. Sustainability Strategies on Deep Energy Saving and Energy Management of Property Developer**
Raymond YAU, General Manager, Technical Services & Sustainable Development, Swire Properties Ltd.
- 2. Overview of Building Energy Efficiency in China and the Upcoming Trend**
WEI Qingpeng, Building Energy Research Center, Tsinghua University, Beijing
(Paper title: Technical Innovation Developed from Ten-year Research and Practice Collaboration of Private Sector and Academia on Building Energy Efficiency)
- 3. Cost & Value: Multiple Benefits of Green Commercial Buildings in Western Countries**
Phil JONES, Chair Architectural Science, Welsh School of Architecture, Cardiff University, United Kingdom; Visiting Research Professor, Faculty of Architecture, University of Hong Kong, Hong Kong SAR
- 4. YKK80 High Efficiency Building - Radiant Control Both Outside and Inside**
Kitaro MIZUIDE, General Manager, M&E Design Department of NIKKEN SEKKEI, Japan
- 5. Performance Synergy from Integrated Design, Construction and Operation. Case Study on a High Performance Grade A Office - Swire One Taikoo Place**
Vincent CHENG, Director of Building Sustainability, Arup, Hong Kong SAR