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Eco Asia Conference 亞洲環保會議 2025

28 – 30 / 10 / 2025

Building a Sustainable Future: Gearing Towards a Net-Zero Built Environment

構建可持續未來：邁向淨零建築環境

In this session, we will explore innovative strategies and technologies for creating a net-zero built environment. As global awareness of climate change intensifies, the construction and real estate sectors must adapt to sustainable practices that minimize carbon footprints. Industry leaders and experts will discuss cutting-edge solutions, share successful case studies, and highlight the importance of collaboration in achieving a sustainable future.

Date 日期：	30 / 10 / 2025 (Thursday) 2025 年 10 月 30 日 (星期四)
Time 時間：	11:00am – 1:00pm 上午 11 時正至下午 1 時正
Venue 地點：	the STAGE, Hall 6, AsiaWorld-Expo 亞洲國際博覽館六號展館
Lead Partner 合作伙伴：	Hong Kong Green Building Council (HKGBC) 香港綠色建築議會 
Language 語言：	English (with simultaneous interpretation in Cantonese and Mandarin) 英語 (現場設有廣東話及普通話即時傳譯)

Subject to change, updated as of 25 September 2025

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Building a Sustainable Future: Gearing Towards a Net-Zero Built Environment

構建可持續未來：邁向淨零建築環境

11:00am 11:15am	From Compliance to Climate Action: Strengthening the Buildings Energy Efficiency 從合規到氣候行動：加強建築物能源效益 Ir CHAN Pak-cheung 陳柏祥工程師 Deputy Director Electrical & Mechanical Services Department, The HKSAR Government 香港特別行政區政府機電工程署副署長/規管服務
11:15am 11:30am	Sustainable Infrastructure & Building Solutions for Carbon Reduction 可持續基礎設施與建築方案以實現碳減排 Mr Gerald CHAN 陳俊健先生 Principal Consultant-in-charge EnviroSolutions & Consulting 首席顧問主管
11:30am 11:45am	Sustainable and Resilient Design for Green Buildings in Asia Pacific 亞太地區綠色建築的可持續與韌性設計理念 Mr Stefano TRONCI Asia Pacific Sustainability Lead Skidmore, Owings & Merrill
11:45am 12:00nn	(TBC) Green Financing for Building Projects 建築項目綠色融資：為可持續未來注入資金 Ir Dr Bruce CHONG 莊宏曦博士工程師 Real Estate Working Group Co-chair Hong Kong Green Finance Association (HKGFA) 香港綠色金融協會 房地產工作組聯合主席
12:00nn 12:15pm	How Sino Group Creating Better Lifescapes through Sustainable Buildings in Hong Kong 信和集團 — 通過可持續發展建築物建構更美好生活 Ms Melanie KWOK 郭鎧怡女士 Deputy General Manager (Sustainability & Innovation) Sino Group 信和集團 可持續發展及創新副總經理
12:15pm 1:00pm	Panel Discussion 討論環節 Moderator 主持人： Ir Harry LAI, BBS 賴漢忠先生 工程師 銅紫荊星章 Executive Director, Hong Kong Green Building Council (HKGBC) 香港綠色建築議會 執行總監

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Moderator 主持人



Ir Harry LAI, BBS 賴漢忠先生 工程師 銅紫荊星章
Executive Director, Hong Kong Green Building Council (HKGBC)
香港綠色建築議會 執行總監



Ir Harry LAI, BBS, is the Executive Director of the Hong Kong Green Building Council, which strives to promote the standard and development of sustainable buildings in Hong Kong with a view to raising green building awareness by engaging the government, the industry and the public, and developing practical solutions for Hong Kong's unique situation. Prior to his retirement from the Electrical and Mechanical Services Department (EMSD), Ir Lai was its Deputy Director/Regulatory Services, responsible for overseeing the enforcement of regulatory functions and implementation of various initiatives, including those on energy efficiency and conservation.

Ir LAI is a chartered engineer, fellow member of the Hong Kong Institution of Engineers and the Institution of Engineering and Technology, UK. He is the Adjunct Professor of the School of Energy and Environment, City University of Hong Kong and the Research Institute for Smart Energy, Hong Kong Polytechnic University.

賴漢忠工程師現任香港綠色建築議會執行總監，致力於推動和提升香港在可持續建築方面的發展和水平，並藉連繫政府、業界及公眾，提高各界對綠色建築的關注，同時為香港的獨特的建築環境制定各種可行策略。賴工程師曾任機電工程署副署長/規管服務，負責監督規管職能的執行及相關措施的推行，包括能源效益與節能相關措施。

賴工程師是一名特許工程師、香港工程師學會及英國工程技術學會的資深會員。他亦現任香港城市大學能源及環境學院和香港理工大學智慧能源研究所的兼職教授。

11:00am – 11:15am

From Compliance to Climate Action: Strengthening the Buildings Energy Efficiency



機電工程署
EMSD



Ir CHAN Pak-cheung is the Deputy Director of the Electrical and Mechanical Services Department of the HKSAR Government. He is responsible for overseeing the enforcement of legislations in ensuring public safety on using electricity, gas, lifts and escalators, railway and other electrical and mechanical installations, and promoting energy efficiency and conservation.

Ir CHAN has been working in the government for over 30 years and taken up professional and managerial roles in the areas of engineering services, project management and regulatory enforcement. He is a fellow member of the Hong Kong Institution of Engineers in the building services, electrical and energy disciplines. He received his bachelor degree in electrical and electronics engineering and master degree in building services engineering from the University of Hong Kong.

陳柏祥工程師為香港特別行政區政府機電工程署副署長，負責監督執行法例，以確保公眾使用電力、氣體、升降機及自動梯、鐵路和其他機電裝置的安全，以及推廣能源效益和節約能源。

陳工程師在政府工作逾 30 年，在工程服務、項目管理和規管執法的範疇擔任專業及管理職務，是香港工程師學會屋宇裝備、電機和能源界別的資深會員，他擁有香港大學電機及電子工程學士學位及屋宇裝備工程碩士學位。

From Compliance to Climate Action: Strengthening the Buildings Energy Efficiency

從合規到氣候行動：加強建築物能源效益

Buildings account for about 90% of Hong Kong's total electricity consumption, and over 50% of our carbon emissions are attributable to generating electricity for our buildings. Improving buildings energy efficiency reduces the demand for power consumption and generation, which will not only reduce carbon emissions but also lessen the financial burden on the public for the increased use of clean fuels for electricity generation.

The Hong Kong SAR Government is adopting a multi-pronged approach of regulatory and administrative measures in promoting buildings energy saving. One of the key initiatives is the amendment to the Buildings Energy Efficiency Ordinance implemented since 2012, including the expansion of regulatory scope to more types of buildings, shorten the mandatory energy audit intervals and mandate the disclosure of energy efficiency data after energy audits.

Energy data disclosure system can be seen as a catalyzer in driving for better buildings energy performance. Apart from allowing the public to inspect the energy performance of the buildings, the trade can also be encouraged to proactively offer energy-saving retrofit proposals to building owners or property management companies, thereby accelerating the implementation of energy saving measures. Moreover, the amended Ordinance leaves room for the development of buildings energy labelling framework, providing the trade clearer guidance to continuously improve the overall energy performance of existing buildings in long term.

香港約 90% 電力用於建築物，超過 50% 的碳排放來自與建築物耗能相關的電力生產。提升建築物的能源效益不單可以減少香港整體用電和發電需求，減少碳排放，更可以降低轉用零碳能源發電的成本。

政府正透過多管齊下的規管和行政措施推動建築物節能。其中一項重要措施是修訂自 2012 年起實施的《建築物能源效益條例》，包括將監管範圍擴大到更多類型的建築物、縮短強制性能源審核周期、以及要求在進行能源審核後披露能源效益數據。

披露能源數據的制度可視為推動建築物提升能源表現的催化劑。除了讓公眾檢查建築物的能源表現外，更可以鼓勵業界主動向業主或物業管理公司提供節能改造方案，從而加快實施節能措施。此外，修訂後的條例為設立建築物能源標籤框架的發展預留了空間，讓業界有更清晰的指引去長期持續提升現有建築物的整體能源表現。

11:15am – 11:30am

Sustainable Infrastructure & Building Solutions for Carbon Reduction



Gerald Chan leads the Hong Kong office of ESC, Asia's leading sustainability consultancy, bringing over 15 years of distinguished experience in MEP engineering, energy management, and sustainability consulting. As a Certified Energy Manager (CEM), Certified Measurement and Verification Professional (CMVP), and Certified Building Commissioning Professional (CBCP), he is a highly accredited expert in developing high-performance, net-zero built environments.

Throughout his career, Mr. Chan has provided strategic sustainability counsel to a diverse portfolio of clients, including major financial institutions and real estate enterprises in the Asia-Pacific region. His expertise lies in translating corporate sustainability commitments into actionable, data-driven strategies that achieve verified energy savings and advance carbon-neutral goals. His insights are critical for organizations aiming to integrate sustainable practices into their core business operations and meet rigorous disclosure requirements.

陳先生現為 ESC 香港辦事處的負責人，ESC 為亞洲領先的可持續發展顧問公司。陳先生擁有逾十五年於機電工程、能源管理及可持續發展顧問領域的豐富經驗，並持有多項國際專業資格，包括能源經理認證（CEM）、測量與驗證專業人員認證（CMVP）及建築調試專業人員認證（CBCP）。他在推動高效能及淨零碳建築環境方面具備深厚專業知識與實戰經驗。

在其專業生涯中，陳先生曾為亞太地區主要金融機構及地產企業提供策略性可持續發展顧問服務。他專長於將企業的可持續發展承諾轉化為具體可行、以數據為本的策略方案，協助客戶實現經驗證的節能成效，並推進碳中和目標。其專業見解對於企業在核心業務中融入可持續實踐，以及應對日益嚴格的資訊披露要求，具有關鍵價值。

Sustainable Infrastructure & Building Solutions for Carbon Reduction

可持續基礎設施與建築方案以實現碳減排

Discuss sustainable and low carbon infrastructure and buildings from a number of different angles:

- Resource efficient: high energy and water efficiency in operation and development
- Low carbon: utilize low carbon materials and leverage effective construction methods to reduce emissions
- Use green resources: with innovative solutions to reduce emissions, from using renewable energy on-/off-site to embedding circular economy concept into the building operation
- Resilient: able to withstand climate impacts like floods and heatwaves

The focus will also be on reducing carbon footprint of buildings leveraging state-of-the-art technologies, passive design, low-carbon materials, nature-based solutions, and design considerations can also be extended to interfacing with the neighborhood and community. The ideas will be discussed with fundamental concepts and real-life examples around the globe.

從多個角度探討可持續與低碳基礎設施與建築方案：

- 能源與用水效率：透過高效設備、智慧控制系統與節能設計，最大限度減少營運期間的能源與水資源消耗。
- 低碳建設：選用低碳建材與高效施工方法
- 可再生能源：整合太陽能、風能、地熱等能源於建築內部或外部供應系統。
- 應對極端氣候：設計可抵禦洪水、熱浪與風暴的建築與基礎設施。

主題亦將聚焦於運用先進技術、被動式設計、低碳建材與自然為本的解決方案，以降低建築的碳足跡。設計考量亦可延伸至與鄰里及社區的互動，促進整體環境與社會的可持續發展。

相關理念將結合基礎理論與全球實際案例進行探討，展示如何在不同地區與情境中實現低碳建築與基礎設施的最佳實踐。

11:30am – 11:45am	Sustainable and Resilient Design for Green Buildings in Asia Pacific
 	Stefano is an Italian architect with 20 years of professional experience specializing in mixed-use developments, master planning, civic architecture, urban design, and interior design. A graduate of the University of Florence, he currently serves as the Asia Pacific Sustainability Lead at SOM, where he collaborates with a multidisciplinary team of environmental experts in sustainable engineering and architecture. He integrates sustainable processes and technologies into his design process, aiming to benefit both the environment and the communities he designs for.
Sustainable and Resilient Design for Green Buildings in Asia Pacific This presentation will highlight innovative architectural design and practices to enhance sustainability performance and resilience of buildings located in the Asia Pacific region.	

11:45am – 12:00nn

(TBC) Green Financing for Building Projects

建築項目綠色融資：為可持續未來注入資金



Dr. Bruce Chong is a Fellow and Director of Arup, leading the Climate, Urban Sustainability and Smart City services in this region. He has established a centre of excellence for climate modelling, making resilience quantifiable and actionable for organisations to plan for future climate resilience. Bruce has supported international organisations such as the World Bank, IFC, ADB, AIIB, APEC and EMF on climate adaptation, sustainable infrastructure and circular economy initiatives. Bruce is a Cambridge Overseas Scholar and Research Fellow at the Sydney University. He has led many high-profile and strategic projects such as advising top-tiered listed companies and city government on carbon neutrality and climate adaptation in various regions. His work also includes a super typhoon study for the South China region; the 2nd generation of 3D city map production, Digital Twin Standard, and smart city district plan for Kowloon East – the first pilot area to explore the feasibility of developing a Smart City in Hong Kong. He recently launched the Asia Corporate Coalition for Climate Resilience (A4CR), advising influential businesses in the region on strategies to address climate change impacts and future-proof assets and operations. Bruce is a fellow of the Institution of Civil Engineers(ICE), the Institution of Engineering & Technology (IET), the Chartered Institution of Building Services Engineers (CIBSE), and the Hong Kong Institution of Engineers (HKIE), as well as committee members of various organisations including co-chairperson of Real Estate Working Group in the HKGFA, Committee Member of ESG Group of the Financial Service Development Council (FSDC), Director of the Hong Kong Green Building Council (HKGBC), Working Group Member on Engineering & Climate Change of the World Federation of Engineering Organizations (WFEO), Council Member of Appointment Advisory Board of the HK International Arbitration Centre (HKIAC). His book Smart Green Resilient was published in 2016 by Hong Kong University Press, and his upcoming title, Tackling Climate Hazards in Coastal Urban Areas of East and Southeast Asia: Connecting Climate Science, Engineering and Finance, will be released in November 2025.

莊宏曦博士工程師（Bruce）是奧雅納院士、氣候及可持續發展董事，專注於制定零碳、碳中和、智慧及氣候韌性規劃、資源效率和環保基建的策略。他曾領導多個香港、中國及東南亞的智慧城市、資源規劃和氣候韌性項目，涵蓋總體規劃、基礎設施及建築。Bruce 為英國劍橋大學海外學者及悉尼大學研究員。近年，他牽頭成立亞洲應對氣候變化企業聯盟（A4CR），旨在構建更具氣候韌性的商界社群。

Bruce 為英國土木工程師學會、英國工程技術學會、英國屋宇裝備工程師學會及香港工程師學會的資深會員，並擔任多個組織的委員會成員，包括世界工程組織聯合會（WFEO）的工程與氣候變化工作組成員、香港金融服務發展局（FSDC）ESG 小組委員、香港綠色建築議會（HKGBC）董事、香港綠色金融協會（HKGFA）房地產工作組主席、香港總商會（HKGCC）房地產及基礎設施委員會副主席等。Bruce 一直積極推動產業變革，其參與發展的「智慧、綠色、韌性」規劃理念已獲香港政府採用。

他於 2016 年由香港大學出版社出版《Smart Green Resilient》一書，其新作《Tackling Climate Hazards in Coastal Urban Areas of East and Southeast Asia: Connecting Climate Science, Engineering and Finance》將於 2025 年 11 月出版。

12:00nn – 12:15pm

How Sino Group Creating Better Lifescapes through Sustainable Buildings in Hong Kong



Melanie is the Deputy General Manager (Sustainability & Innovation) and the Head of Sustainability and Innovation of Sino Group. She oversees a range of sustainability projects related to ESG. Being a specialist in the realm of Sustainable Development for nearly 20 years, Melanie has also gained extensive experiences in Sustainable Tourism and Stakeholder Engagement.

Melanie holds a Bachelor of Science Degree in Environmental Management from the Imperial College London, a Master Degree of Science in Environment and Development from the London School of Economics and Political Science, a Master Degree in Sustainable Business from the University of Cambridge. She is also a certified Sustainable Tourism Professional by Global Sustainable Tourism Council.

Melanie is serving various public duties, including the Vice Chairman of the Hong Kong General Chamber of Commerce (HKGCC)'s Environment & Sustainability Committee, a member of the Hong Kong General Chamber of Commerce (HKGCC)'s Industry & Technology Committee, a member of the Publicity Working Group of Environmental Campaign Committee (ECC), a sub-committee member on Youth and Capacity Building of the Environment and Ecology Bureau, HKSAR Government and a member of the Advisory Committee on Recycling Fund (RFAC) of the Environment and Ecology Bureau, HKSAR Government, a Programme Advisor of the MSc in Sustainable Global Business Programme at CUHK Business School, a Honorable Mentor of the Hong Kong University of Science and Technology (HKUST)'s Entrepreneurship Center, a member of the Environmental, Social and Governance (ESG) Workgroup of the Hospital Governing Committee of Princess Margaret Hospital and Kwai Chung Hospital.

郭鎧怡女士是信和集團可持續發展及創新副總經理及可持續發展部及創新部主管。她負責一系列與環境、社會和管治相關的可持續發展項目。作為接近 20 年的可持續發展領域專家，郭女士在可持續旅遊業和持份者參與方面也積累了豐富的經驗。

郭女士擁有倫敦帝國學院的環境管理理學學士學位、倫敦政治經濟學院的環境與發展理學碩士學位及劍橋大學的可持續商業碩士學位。她還是全球可持續旅遊委員會認證的可持續旅遊專業人士。

郭女士亦擔任一系列的公職，包括香港總商會環境及可持續發展委員會副主席、香港總商會工業及科技委員會委員、環境運動委員會宣傳工作小組委員、香港特區政府環境及生態局青年及公眾教育工作小組委員，及香港特區政府環境及生態局回收基金諮詢委員會成員、香港中文大學商學院可持續全球商業碩士課程顧問、香港科技大學創業中心顧問導師，她亦是葵涌醫院及瑪嘉烈醫院管治委員會環境、社會及管治工作小組成員。

How Sino Group Creating Better Lifescapes through Sustainable Buildings in Hong Kong

At Sino, we have a firm belief that businesses have a key role to play in promoting decarbonisation and contributing to a sustainable built environment.

The Group has extended its sustainability efforts in collaboration with like-minded partners through green architectural planning, decarbonisation initiatives, climate resilience, innovation, and meaningful community engagement — to build a more sustainable future together.

信和集團深信，企業在促進減碳和建構可持續發展建築環境方面擔起重要角色。

集團致力推動企業可持續發展，並與志同道合的夥伴合作，致力推動綠色建築規劃、減碳措施、應對氣候變化、創新和關懷社群，並與志同道合的夥伴合作，建構更可持續發展的未來。