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Towards a Smart Sustainable City – Potential and Opportunities for Hong Kong

22 Nov 2017 (Wednesday) | 9:30am- 5:00pm | The Mira Hong Kong



Programme Rundown

0900 ▶ Registration

0930 ▶ Welcome Remarks

Mr Richard LANCASTER, BEC Chairman and CEO of CLP Holdings Limited

Opening Speech by Guest of Honor

Mr Nicholas W YANG, GBS, JP, Secretary for Innovation and Technology of the Government of the Hong Kong Special Administrative Region

0945 ▶ **Smart and Digital City Solutions - From global perspective to local application**

Mr Klaus HEIDINGER, Head, City IT Applications, Siemens Centre of Competence Cities, London

Smart Cities in Asia – Structure and Approaches

Mr Eli KONVITZ, Director, Urban Development & Design, South East Asia, Atkins

1020 ▶ Morning Networking Break

1040 ▶ **Challenges & Opportunities for Smart and Sustainable Cities**

Dr Thomas TANG, Former Managing Director of Kuala Lumpur Centre for Sustainable Innovation and Professional Corporate Executive on business strategy, market development and sustainable built environment design

Powering a Greener and Smarter Hong Kong

Mr CHIANG Tung Keung, Managing Director, CLP Power Hong Kong Limited

1110 ▶ **Panel Discussion: A Smart Sustainable City – From Energy to Air Quality**

Moderator: **Dr Raymond YAU**, BEC Board Director and General Manager, Technical Services and Sustainable Development, Swire Properties Limited

1200 ▶ Networking Luncheon

- 1320 ▶ **The future of sustainable energy and transport**
Mr Robin (Yuxiang) REN, Vice President, Asia Pacific, Tesla Inc, San Francisco
- Driving the shift towards a Sustainable Transport System**
Mr Alexander MASTROVITO, Head of Sustainable Transport Solutions - Scania Asia & Oceania, Scania Group
- A holistic approach for transforming Kowloon East to a green and smart neighbourhood**
Mr Frank WONG, Deputy Head of Energizing Kowloon East Office, Development Bureau, Hong Kong SAR Government
- 1405 ▶ **Panel Discussion: Smart Mobility for a Sustainable City**
Moderator: **Ms Maya DE SOUZA**, Senior Manager - Policy Research, Business Environment Council Limited
- 1500 ▶ **Afternoon Networking Break**
- 1520 ▶ **Architects of the Future: Turning Garbage into Gold with Dumb Data**
Dr Ernest S LO, President, Hong Kong Internet of Things Alliance
- Big Data: Big Challenges or Big Opportunities for Power Utilities**
Mr LEUNG Wai Kin, Senior Manager (Customer Business Development), The Hongkong Electric Company Limited
- Using 3D Spatial Analytics to inform Urban Planning**
Prof Geoffrey SHEN, Chair Professor of Construction Management and Associate Dean of Faculty of Construction and Environment, The Hong Kong Polytechnic of University
- 1605 ▶ **Panel Discussion: Smart decision-making: using data and engaging the public**
Moderator: **Mr Tony MILLER**, BEC Board Director and Senior Consultant of Sun Hung Kai Properties Limited
- 1700 ▶ **End of Programme**

Speaker's Profile

(Speakers are listed in alphabetical order of last names, except Guest of Honor and BEC staff)



Mr Nicholas W YANG, GBS, JP

Secretary for Innovation and Technology of the Government of the Hong Kong Special Administrative Region

Mr Yang has been Secretary for Innovation and Technology of the Hong Kong Special Administrative Region since November 2015.

Mr Yang graduated in 1977 from the California Institute of Technology in the United States with a Bachelor of Science in Electrical Engineering and Applied Mathematics. He pursued further studies at Stanford University and obtained a Master of Science degree in Electrical Engineering in 1978 and a Master of Business Administration degree in 1982. Mr Yang worked as a senior design engineer for Intel Corporation in 1978 and later as a strategic management consultant for Bain & Company.

After returning to Hong Kong in 1983, he joined Shell Electric Mfg. (Holdings) Limited as its Executive Director and Deputy Group Managing Director until August 1999. He took up various posts in several technology, venture capital and private equity firms from 1999 to 2003. Mr Yang worked as the Chief Executive Officer of the Hong Kong Cyberport Management Company Limited from October 2003 to February 2010. He was Executive Vice President of the Hong Kong Polytechnic University from March 2010 to February 2015. He was appointed as Non-official Member of the Executive Council and Advisor to the Chief Executive on Innovation and Technology in March 2015.



Mr CHIANG Tung Keung

Managing Director, CLP Power Hong Kong Limited

Mr Chiang is Managing Director of CLP Power Hong Kong Limited and holds overall responsibility for the operations of the Hong Kong business, which includes a vertically integrated electricity utility serving 6 million people in Kowloon, the New Territories and Lantau Island.

Mr Chiang holds a Bachelor of Science in Electrical & Electronic Engineering from the University of Hong Kong, a Master of Science in Electrical Engineering from the Hong Kong Polytechnic University and a Master of Business Administration from the Chinese University of Hong Kong.

Mr Chiang joined CLP Power as a Graduate Trainee in 1988. He has extensive experience in generation, transmission and distribution systems as well as regulatory strategy. He has held various posts in different areas including power system asset management, planning, design, operation and maintenance, power quality, and corporate and regulatory strategy. Mr Chiang was the Chief Operating Officer - CLP Power Hong Kong before taking up his current position in June 2017.

Mr Chiang is also a Director of various subsidiary companies and affiliated companies of the CLP Group.



Mr Klaus HEIDINGER

Head, City IT Applications, Siemens Centre of Competence Cities, London

Klaus Heidinger is the Head of Siemens City IT Solutions within the Global Center of Competence Cities in London. This role involves working with City Leadership across the globe and providing methodologies and tools such as the City Performance Tool to support cities to meet their economic, social and environmental targets.

Prior to his present position, Klaus was the Head of the Global Center for City Management based in Singapore and before that he was heading the delivery for IT Services in Rome, Italy for the Siemens IT Business. Before his career in Rome, Klaus was the Managing Director for a Siemens subsidiary in Vienna, Austria, with a strong focus in the public sector for the Austrian employment service agency.



Mr Eli Raphael KONVITZ

Director, Urban Development & Design, South East Asia, Atkins

Eli Konvitz is Director for Urban Development & Design, South East Asia, for Atkins. His focus is on urban development, including front-end advisory, smart cities, and future proofing cities, across the region.

Eli has 19 years' experience in strategy and masterplanning; sustainability, resilience, and cities; and policy and research. He has carried out urban development and infrastructure projects in Asia, Europe, the Middle East, Africa, and Latin America for clients across the public, private, and third sectors.

Projects and initiatives Eli has recently led include plans for new development and regeneration, large-scale urbanisation, reclamation projects, mixed-use industry-led sites, tourism and leisure strategy, and transport-oriented development, across the South East Asia region. Previous work includes climate change strategy and policy, regional spatial strategies, creation of mechanisms for low-carbon retrofit of existing buildings, and urban integration for transit-oriented development and stations on several continents as well as for High Speed 2 in the UK.

Eli has lived on three continents and is a graduate of The Johns Hopkins University, the University of Newcastle upon Tyne, and a Fellow of the Royal Society for the Arts.



Mr LEUNG Wai Kin

Senior Manager (Customer Business Development),
The Hongkong Electric Company Limited

Mr Leung joined HK Electric after graduation from the University of Hong Kong in early 1990's. Mr Leung has worked on power plant projects, electric mobility project and various strategic studies. Mr Leung has also over 10 years of experience in electricity market development, regulatory and policy affairs. He is now the Senior Manager (Customer Business Development) with main responsibilities covering the development and implementation of new customer services under the Scheme of Control Agreement, and the strategic planning for new energy services conducive to customer benefits and relations. He is a registered professional engineer of Hong Kong and the UK. He is also a member of the BEC CCBF Advisory Group Steering Committee.



Dr Ernest S LO

President, Hong Kong Internet of Things Alliance

Dr Ernest Lo is the Founder of Future Impact Lab Limited, President of the Hong Kong Internet of Things Alliance, and Lecturer at the University of Hong Kong teaching creativity and business innovation.

Dr Lo has been working on IoT technologies and innovations for over 15 years. He was a Croucher Postdoc Fellow at Stanford University and won 3 IEEE R&D awards in Glasgow, Paris, and Houston. In 2010, he set up a Catalonian R&D operation in Hong Kong working on Smart City projects. The team developed state-of-the-art LiFi technologies and granted license to others. In 2015, he founded Future Impact Lab Limited (FILL) helping corporates derive executable innovations from data-driven strategy to IoT products and platforms. FILL is also committed to addressing social and humanity issues with special interests in Agriculture, Environment, and Elderly. Through strategic collaboration with domain experts, FILL derived data-driven innovations in farming, energy-saving, healthcare, and education, etc.



Mr Alexander MASTROVITO

Head of Sustainable Transport Solutions – Scania Asia & Oceania, Scania Group

Alexander Mastrovito is the project leader for Scania's deployment of autonomous trucks in Singapore, the architect of Scania's Hong Kong Fleet Management Centre and the Head of sustainable transport solutions for Scania in Asia and Oceania. Alexander is responsible for promoting and implementing future solutions - electric and alternatively fueled vehicles, connected transports and self-driving trucks and buses. Prior to joining Scania, he was based in Beijing and has now spent 11 years in the Greater China region working in the automotive industry. Alexander currently holds positions within several environmental policy making bodies in Hong Kong.



Mr Tony MILLER

BEC Board Director and Senior Consultant of Sun Hung Kai Properties Limited

Mr Tony Miller is former Chairman of Hong Kong Business Aviation Centre Limited, and a Non-Executive Director of Transport International Holdings Limited, RoadShow Holding Limited and SmarTone Telecommunications Holdings Limited.

A former senior civil servant, Mr Miller retired from the Hong Kong Government in February 2007 as Permanent Representative of the Hong Kong Special Administrative Region of China to the World Trade Organisation in Geneva. Key positions held prior to that include Permanent Secretary for Financial Services and the Treasury (2002-04), Director of Housing and Chief Executive of the Housing Authority (1996-2002), Director-General of Trade (1993-96), Director of Marine (1991-93), and Information Coordinator (1989-91).



Mr Robin (Yuxiang) REN

Vice President, Asia Pacific, Tesla Inc

Robin Ren joined Tesla in May 2015, as Vice President of Asia Pacific. Mr Ren has a master's degree in electrical engineering at Stanford University and a bachelor's degree from University of Pennsylvania. He worked in the San Francisco Bay Area's technology industry for ten years including at Rainfinity and Yahoo. At Yahoo, he led a team of Yahoo's back-end service engineers in the development and maintenance of Yahoo e-mail, which had 300 million subscribers all over the world. Prior to Tesla, Robin was CTO of XtremIO since 2010, a pioneer in all-flash storage arrays which was acquired by EMC in 2012. After that, Robin was the CTO of the XtremIO business unit at EMC, and led XtremIO to become the fastest-to-\$1B enterprise IT product ever.



Prof Geoffrey SHEN

Chair Professor of Construction Management and Associate Dean of Faculty of Construction and Environment, The Hong Kong Polytechnic University

Professor Geoffrey Shen is the Chair Professor of Construction Management and Associate Dean of Faculty of Construction and Environment of The Hong Kong Polytechnic University. He has a proven record and accomplishment of academic and research leadership in construction management with special interest in sustainable and smart construction supported by information and communication technologies. He has led a large number of research projects with total funding over HK\$35 million, and has authored more than 200 papers in peer-reviewed academic journals.

Professor Shen is a member of the editorial boards of several leading journals, and has been invited to give keynote presentations in a number of international conferences. He has served the built environment panel of the Research Assessment Exercise in Hong Kong in 2006, and he is the immediate past Chair of the Global Leadership Forum in Construction Engineering and Management Programs. Professionally, he is an Eminent Fellow of the Royal Institution of Chartered Surveyors (RICS) and Fellow of the Hong Kong Institute of Value Management (HKIVM). As a certified Value Management Facilitator (List A) recognised by the HKSAR Government, he has professionally designed and facilitated around 60 value management and/or partnering workshops for large and complex construction projects in both the public and private sectors. He was a Panel Member for Lunching CIB Roadmap on Smart Cities at the CIB (International Council for Research and Innovation in Building and Construction) World Building Congress in 2016.



Dr Thomas TANG

Former Managing Director of Kuala Lumpur Centre for Sustainable Innovation and Professional Corporate Executive on business strategy, market development and sustainable built environment design

Dr Thomas Tang is an experienced corporate executive with a consulting background focused on business strategy, operations and market development. Dr Tang has professional experience in sustainability practice sector for over 20 years. He was the former sustainability director of a multinational engineering design company where he led initiatives on leadership, sustainability, corporate social responsibility, quality and management development. He was also the former Managing Director of the Kuala Lumpur Centre for Sustainable Innovation, leading a team of experts working in the area of sustainability within the context of a smart city.

Dr Tang is a Faculty Associate of the Henley Business College, an Honorary Fellow of the College of Estate Management (UK) and an Associate Member of the International Construction Business Management Research Group at the University of Technology Malaysia.



Mr Frank WONG

Deputy Head of Energizing Kowloon East Office, Development Bureau, Hong Kong SAR Government

Mr Frank Wong is an architect by profession and has been involving institutional design in the private sector for almost 10 years before joining the Government. He is the Project Director in Architectural Services Department handling mainly government offices, law courts and school projects before joining EKEO of DEVB in Sept 2016 as the Deputy Head.



Dr Raymond YAU

BEC Board Director and General Manager, Technical Services and Sustainable Development, Swire Properties Limited

Dr Raymond Yau is the General Manager, Technical Services & Sustainable Development in Swire Properties Limited, leading the Department of Technical Services and Sustainability to formulate and provide support to implement sustainability strategies within Swire Properties and to provide technical support to the company's operation across Hong Kong, Mainland China and the US to ensure its real estate assets are safeguarded and the standards in environmental performance and energy management are upheld. He is currently leading the Monitoring-based Retro-commissioning program of HVAC Systems in all portfolios.

Before joining Swire, Dr Yau was Arup Fellow and Director of Arup in Hong Kong, an international engineering consultant, with over 28 years of experience on the design of sustainable and environmental friendly buildings, and infrastructure and on sustainability consulting across the globe. Dr Yau received the Innovation Award for the Engineering Industry from the Hong Kong Institution of Engineers in 2013 on Construction Category of the Champion Project CIC Zero Carbon Building for his role as the Principal Investigator.

Dr Yau is currently Board Director of Business Environment Council (2016-2018) and member of the Energy AG and Climate Change Business Forum AG of BEC. He is committee member of the China Green Building Council and member of Technical Taskforce on Mandatory Implementation of the Building Energy Code of HKSAR Government. He was Director of Hong Kong Green Building Council (2012-2015), Board of Director of BSL (2012-2015), Chairperson of TRC (2013-2015), and Regional Vice-Chair of ASHRAE Region XIII (2007-2010) and Past President of ASHRAE Hong Kong Chapter (2002-2003). Dr Yau was Honorary Professor of the University of Hong Kong and is presently Guest Professor of Chongqing University, China.

Dr Yau is a LEED AP, BEAM Pro, a Chartered Engineer and Fellow Members of Hong Kong Institution of Engineers and the UK Chartered Institution of Building Services Engineers.



Ms Maya DE SOUZA

Senior Manager - Policy Research, Business Environment Council Limited

Maya leads BEC's work on researching the public policy framework relating to the environment and engaging BEC members to develop recommendations for improvements. She also leads BEC's collaborative activities with businesses working with BEC's Advisory Groups on Climate Change, Energy and Transport, supporting advocacy of good practice to BEC members and the wider business community, as well as to influence the environmental policy framework so that it supports excellence in environmental performance.

Maya has worked for over 10 years in environmental policy and sustainability. Prior to joining BEC, Maya worked for the UK's Department for Environment, Food and Rural Affairs leading a number of policy teams, including on green procurement, greening government performance and reporting, and flood risk management. She also has experience in waste management, energy efficiency and planning policy from her wider public sector work.

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