

# Joint Symposium 2022

# CITY FOR FUTURE

## Journey to Carbon Neutral Building

23 November 2022 (Wednesday) · 9:00 am to 6:00 pm · Kowloon Shangri-La, Hong Kong · Full Day Seminar, 6 hours CPD Certification

## CONFERENCE THEMES

This symposium is an annual event intended to bring together international and local speakers to foster all aspects of advances in building design and building services engineering. Sub-themes of the symposium include:

## WHO SHOULD ATTEND

Engineers, architects, designers, researchers, academics, property developers, professionals and practitioners involved in the wide range of disciplines associated with building design and building services engineering. Official language of the Symposium is English.

## CODES & GUIDANCE

## DESIGN & RESEARCH

## OPERATION & APPLICATION

## MAINTENANCE & PERFORMANCE

## REGISTRATION FEES (PER PERSON)

Full package*		Full-time students <sup>#</sup>
<b>EARLY BIRD</b> (on or before 25 <sup>th</sup> Oct 2022)	<b>STANDARD</b> (after 25 <sup>th</sup> Oct 2022)	<b>STANDARD</b>
<b>HK\$ 1,600</b>	<b>HK\$ 1,700</b>	<b>HK\$ 400</b>

\* Fee includes proceedings, coffee breaks and lunch

<sup>#</sup> Student package includes proceedings and coffee breaks only

## REGISTRATION

Please register online via:

<https://docs.google.com/forms/d/1ADb-sUaTvtUQhhYhE2zdlInHPf-ux9FBBjSLX0cD8y4/edit>

Please make the Cheque payable to

“THE HONG KONG INSTITUTION OF ENGINEERS - BS DIVISION”.

Send the Cheque to below address:

ATAL Building Services Engineering Limited

13/F, Island Place Tower, 510 King's Road, North Point, Hong Kong

Attn: Mr. Se Wai Hung (HKIE)

At the back of the Cheque, please kindly state

“**JS2022, Name of your organization**, Contact person and Contact tel. number”.

No refund may be made but substitute delegate is allowed.

Receipt will be issued to the contact person when cheque is received.

Enquiry email: [hkjs2022hk@gmail.com](mailto:hkjs2022hk@gmail.com).



For details, please visit our website:

[www.hkjs.com.hk](http://www.hkjs.com.hk)





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## PROGRAMME

09:00 - 09:05 WELCOME ADDRESS

Mr. Jason Kwok

*Chairman, Joint Symposium 2022 Organizing Committee*

09:05 - 09:20 OPENING ADDRESS

Ms. Winnie Ho, JP

*Secretary for Housing, HKSAR*

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09:20 - 09:30 KEYNOTE SPEECH

Mr. Adrian Catchpole

*President-Elect, CIBSE UK*

14:00 - 14:10 KEYNOTE SPEECH

Mr. Farooq Mehboob

*ASHRAE Society President*

### SESSION 1 – CODES AND GUIDANCE

CHAIRD BY: THE HONG KONG POLYTECHNIC UNIVERSITY  
*(Prof. Asif Usmani, Head of Department of Building Environment and Energy Engineering)*

- 09:30 - 09:50 Advanced Approach on Building Decarbonization - Embodied & Operational Carbon, by **ARUP**
- 09:50 - 10:10 Enhancing Buildings Energy Performance Towards Carbon Neutrality by Regulation and Collaboration, by **EMSD, HKSAR**
- 10:10 - 10:30 Costs and Benefits of BEAM Plus Energy Use Reduction Credits, by **BEEE, PolyU**
- 10:30 - 10:45 Questions for Session 1
- 10:45 - 10:50 Appreciation Certification to Speakers
- 10:50 - 11:15 Coffee Break

### SESSION 2 – DESIGN AND RESEARCH

CHAIRD BY: ASHRAE HONG KONG CHAPTER  
*(Mr. Joe Chow, President)*

- 11:15 - 11:35 Sea Water Cooled Chiller Plant and Other District Cooling Systems Viability, Selection Criteria, and Master Planning by **Cundall**
- 11:35 - 11:55 Smart Green Building Strategies Toward Advancing Net Zero, by **Arcadis**
- 11:55 - 12:15 Apply design for manufacture and assembly (DfMA) thinking and offsite techniques to building services systems to enable future lean construction, by **HKU**
- 12:15 - 12:30 Questions for Session 2
- 12:30 - 12:35 Appreciation Certification to Speakers
- 12:40 - 13:55 Lunch

### SESSION 3 – OPERATION AND APPLICATION

CHAIRD BY: HKIE BS DIVISION  
*(Ir. Sammy SK Yeung, Chairman)*

- 14:10 - 14:30 Analysis and Improvement of PV Panel Output Efficiency, by **Thei**
- 14:30 - 14:50 Pathway to Carbon Neutrality via Semantic AI: The Future of Automation in City Level, by **EMSD, HKSAR and HKBU**
- 14:50 - 15:10 The Road of Government Buildings to Carbon Neutrality, by **ArchSD, HKSAR**
- 15:10 - 15:25 Questions for Session 3
- 15:25 - 15:30 Appreciation Certification to Speakers
- 15:30 - 15:55 Coffee Break

### SESSION 4 – MAINTENANCE AND PERFORMANCE

CHAIRD BY: CIBSE HONG KONG REGION  
*(Mr. TC Chan, Chair)*

- 15:55 - 16:15 Optimising Chiller Energy Efficiency for Carbon Neutral Buildings, by **CLP**
- 16:15 - 16:35 Sustainability studies of Solar Energy use for HVAC&R systems, by **Thei**
- 16:35 - 16:55 Chiller Plant Optimization Towards Carbon Neutrality: A Successful Retrofit with Data-Driven Expert Control and AI in an Existing Commercial Building, by **Trane Hong Kong, HKGBC, PolyU and Kai Shing Management Services Limited**
- 16:55 - 17:10 Questions for Session 4
- 17:10 - 17:15 Appreciation Certification to Speakers
- 17:15 - 17:25 Closing Speech:  
**Mr. TC Chan, Chair, CIBSE Hong Kong Region**