



# The HKIE Environmental Division Annual Forum 2024

*“Driving New Metropolis in GBA Towards  
Climate Resilience and Sustainability”*



**HKIE** THE HONG KONG  
INSTITUTION OF ENGINEERS  
香港工程師學會

Environmental Division  
環境分部

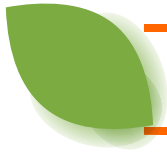
Date: 18 April 2024 (Thursday)

Time: 09:00-17:00

Venue: 1/F Grand Ballroom I-III,  
Crowne Plaza Hong Kong East,  
3 Tong Tak Street, Tseung Kwan O,

Language: English / Chinese

(Without translation)



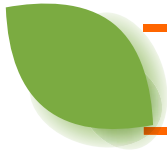
## *INTRODUCTION*

Regarding the complex challenge of concurrently addressing multiple aspects of climate change, the Annual Forum 2024 becomes a key platform for industry experts to develop strategies for a sustainable urban future especially for new metropolis in Greater Bay Area. The topics will holistically cover smart town planning, integrating Environmental, Social, and Governance (ESG) principles, and scaling up green financing. Key focus areas to be agreed upon include developing climate resilience strategies, investigating low carbon emission initiatives, discussing the role of ESG in driving new technologies and investments. The need to scale up the role of innovative engineering and financial models in forming actions and decisions on resilience and sustainability will be highlighted. As a result, both technological advancement and financial investment are seen as critical components in developing new metropolises that are equipped to thrive in a changing climate.

The aim of the Annual Forum 2024 is to discuss and share knowledge, insight, expertise and experiences on essential elements and considerations for developing new metropolis in GBA to achieve climate resilience and sustainability. It will focus on engineering challenges and innovation opportunities in four sessions: I) Smart Town Planning in New Developing Areas - in Terms of Sustainability and Environmental Excellence; II) Climate Resilience Approach for Development of New Metropolis in GBA; III) ESG Driven New Technologies and Innovations for Environmental Excellence and Climate Resilience and IV) Scaling Up Green Financing to Accelerate Carbon Neutrality.

*“Driving New Metropolis in GBA Towards*

*Climate Resilience and Sustainability”*



## ***ORGANIZING COMMITTEE***

### ***Chairman***

Ir Dr CHAN Ka Lung, Raymond

### ***Members***

Ir WONG Wai Keung, Alex

Ir Dr ZHOU Wenwen, Shelley

Ir CHOW Kwok Keung, Peter

Ir LEE Wai Tak, Vincent

Ir Prof SHIH Kaimin

Ir LO Pak Cheong

Ir CHAN Chung Tak, Thomas

Ir TANG Sher Kin, Kelvin

Ir LEONG Lai Shing, Fredrick

Ir CHAN Yee Tak, Jacqueline

Ir CHAN Mong Wah, Mannix

Ir Dr GBAGUIDI Alex Enagnon

Ir LAM Chi Sing

Ir HO Hing Yu, Steven

Ir LEUNG Chi Fung

Ir WANG Yuan Chi, Daniel

Ms SHEA Yi Ling, Elaine

Mr. YU Hon Chuk

Mr. LEE Wood Wei, Patrick

Ir Dr. YUNG, Kin Kwong, Jeffrey

Ms. Tsang Mei Wai, Cindy

Ir Prof Irene LO

Ir WONG Siu Wai, Kenny

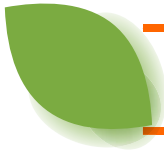
Mr. LAM Yau Bun, Benjamin

Ir Kitty LEE Wing Ki

Ir CHEN Hao Ting, Ambrose

***“Driving New Metropolis in GBA Towards***

***Climate Resilience and Sustainability”***



# SPONSORSHIP

## Diamond Sponsor



## Platinum Sponsor



## Gold Sponsor



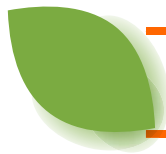
## Silver Sponsor

## Bronze Sponsor



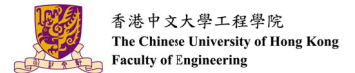
“Driving New Metropolis in GBA Towards

Climate Resilience and Sustainability”

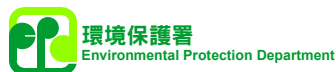


# SUPPORTING ORGANIZATIONS

## Academic



## Non-Academic



*“Driving New Metropolis in GBA Towards*

*Climate Resilience and Sustainability”*



## FORUM VENUE

### Crowne Plaza Hong Kong East

3 Tong Tak Street, Tseung Kwan O, Hong Kong

3-minute walk from the Tseung Kwan O MTR Station, Exit C

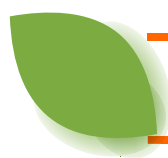


#### Transportation Information:

From	Time (min)	By
Hong Kong International Airport	45	Car
Sky100 at International Commerce Centre (ICC)	35	Car
Central	25	Car
Sai Kung Town	20	Car
Hong Kong Convention & Exhibition Centre	20	Car
Hong Kong University of Science and Technology	15	Car
Quarry Bay, North Point, Taikoo Shing, Kwun Tong	10 - 15	MTR
East Point City Shopping Mall	3	MTR
Park Central Shopping Mall	1	Walk

*“Driving New Metropolis in GBA Towards*

*Climate Resilience and Sustainability”*



## PROGRAMME

TIME	CONTENT
8:30am-9:00am	<b>Registration</b>
9:00am-9:05am	<b>Welcome Remarks</b> Ir Alex Wong, Chairman of the HKIE EVD
9:05am-9:15am	<b>Opening Address</b> Ir Barry Lee, President, The Hong Kong Institution of Engineers
9:15am-9:30am	<b>AM Session Keynote Address – Why are Climate Resilience and Sustainability Critical to New Metropolis?</b> AM Keynote Speaker - Mr. Michael Fong, JP, Director of Civil Engineering and Development Department, The Government of the HKSAR
9:30am-9:40am	<b>Group Photo</b>
<b>Session I – Smart Town Planning in New Developing Areas - in Terms of Sustainability and Environmental Excellence</b> Chaired by Ir TANG Sher Kin, Kelvin	
9:40am-9:55am	<b>I-1 - Flood Prevention and Climate Resilience</b> Speaker: Mr. Ringo Mok, JP, Director of Drainage Services Department, The Government of the HKSAR
9:55am-10:10am	<b>I-2 – Integrating Solid-State Hydrogen Storage Materials into Town Planning for a Sustainable Urban Future</b> Speaker: Ir Dr Alex Tsang, Assistant Professor of Faculty of Science and Technology, Thei
10:10am-10:25am	<b>I-3 - What are the must-do? Smart Green Resilient for Urban Development</b> Speaker: Ir Dr Bruce Chong, Director of Sustainability, Arup
10:25am-10:40am	<b>I-4 –Smartgrid for Resilience and Sustainability</b> Speaker: Ir Bruce Chan, Director – Smartgrid and Innovation, CLP Power Hong Kong
10:40am-10:55am	<b>Q &amp; A</b>
10:55am-11:15am	<b>Coffee Break</b>
<b>Session II - Climate Resilience Approach for Development of New Metropolis in GBA</b> Chaired by Ir HO Hing Yu, Steven	
11:15am-11:30am	<b>II-1 -雙碳目標下澳門的可持續發展狀況</b> Speaker: 黃傑勇工程師, 澳門工程師學會副理事長
11:30am-11:45am	<b>II-2 -前海在綠色生態、韌性城市建設相關規劃考慮</b> Speaker: 張帆副處長, 深圳市前海管理局建設管理處
11:45am-12:00pm	<b>II-3- Nature-based Solutions as Ally for Developing Sustainable Metropolis</b> Speaker: Ms. Karen Ho, Head, Corporate and Community Sustainability, WWF
12:00pm-12:15pm	<b>II-4 –Hong Kong Offshore LNG Terminal for a Greener Hong Kong towards Carbon Naturality</b> Speaker: Ir Johnny Kwong Kwong-lam, Chief Mechanical Engineer of HK Electric
12:15pm-12:30pm	<b>Q &amp; A</b>

**“Driving New Metropolis in GBA Towards**

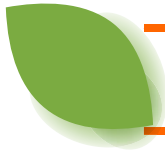
**Climate Resilience and Sustainability”**

TIME	CONTENT
12:30pm-2:00pm	<i>Luncheon</i> Speaker: From Urban Renewal Authority
2:00pm-2:15pm	<b>PM Session Keynote Address - How can Sustainability and Carbon Neutrality Contribute to Climate Resilience?</b> PM Keynote Speaker – Ir Dr Samuel Chui, JP, Director of Environmental Protection Department, The Government of the HKSAR
2:15pm-2:25pm	<i>Group Photo</i>
<b>Session III – ESG Driven New Technologies and Innovations for Environmental Excellence and Climate Resilience</b> Chaired by Ir Kitty LEE Wing Ki	
2:25pm-2:50pm	<b>III-1 - Low Carbon Emission Technology to Treat Sewage and Generate H2 Gas as Renewable Energy</b> Speaker: Ir Prof. Irene Lo, Hong Kong University of Science and Technology
2:50pm-3:05pm	<b>III-2 - ESG Driven New Technologies and Innovations for Environmental Excellence, Climate Resilience and Sustainable Economy</b> Speaker: Ir Prof. Steve S.F. Wong, IESG Technologies Ltd.
3:05pm-3:20pm	<b>III-3 –New Source of Drinking Water for Hong Kong – Tseung Kwan O- Desalination Plant</b> Speaker: Ir Law Chi Wai Alex, Managing Director – E&M Contracting, The Jardine Engineering Corporation Limited
3:20pm-3:35pm	<b>III-4 - How The Task Force on Nature-related Financial Disclosures (TNFD) Framework can Facilitate the Achievement of the Biodiversity Goals and Enhance the Resilience to the Effect of Climate Change</b> Speaker: Dr Julia Baker, UK Mott
3:35pm-3:50pm	<b>Q &amp; A</b>
3:50pm-4:10pm	<i>Coffee Break</i>
<b>Session IV - Scaling Up Green Financing to Accelerate Carbon Neutrality</b> Chaired by Ir Dr GBAGUIDI Alex Enagnon	
4:10pm-4:25pm	<b>IV-1 – Barriers and Opportunities in Using Sustainable Finance to Accelerate Decarbonisation in the Greater Bay Area</b> Speaker: Ir Prof. Elvis Au, BBS, Adjunct Professor, The University of Hong Kong
4:25pm-4:40pm	<b>IV-2 - Green Building Certification, Green Financing and a Better Living Environment</b> Speaker: Ir Ho Chi Shing, Chairman, Hong Kong Quality Assurance Agency
4:40pm-4:55pm	<b>IV-3 – Green Investing Trends – Insights from Global, Asia and GBA Markets</b> Speaker: Ms. Kristy Wong, Associate Director of ESG Investment Specialist of Amundi
4:55pm-5:10pm	<b>IV-4 - Sustainable Finance for a Sustainable Future: Empowering the Construction Sector towards Carbon Neutrality in Hong Kong and the Greater Bay Area</b> Speaker: Dr Jimmy Chiang, Associate Director-General of InvestHK
5:10pm-5:25pm	<b>Q &amp; A</b>
5:25pm-5:30pm	<b>Closing Remarks</b> Ir Dr Raymond K.L. Chan, Chairman of Organizing Committee

**“Driving New Metropolis in GBA Towards**

**Climate Resilience and Sustainability”**





## REGISTRATION FORM



### THE HKIE Environmental Division Annual Forum 2024

*“Driving New Metropolis in GBA Towards Climate Resilience and Sustainability”*

Thursday, 18 April 2024 (09:00-17:30)

Crowne Plaza Hong Kong East, 3 Tong Tak Street, Tseung Kwan O, Hong Kong

Name: (Ir/Prof/Dr/Mr/Ms) \_\_\_\_\_ (First Name) \_\_\_\_\_ (Surname)

Company: \_\_\_\_\_ Position: \_\_\_\_\_

Tel: \_\_\_\_\_ Email: \_\_\_\_\_

	Registration Fee	Registration (please “√” as appropriate)
Early-Bird Registration (on or before 8 MAR 2024)	Members of The HKIE and Supporting Organizations : \$980	
	Non-Members : \$1,080	
Full Registration (after 8 MAR 2024)	Members of The HKIE and Supporting Organizations : \$1,280	
	Non-Members : \$1,480	
HKIE Graduate Members	\$500	

#### Remarks :

- ※ The fee includes a copy of Forum proceedings, a lunch and two coffee breaks.
- ※ HKIE Graduate Members Seats are limited to 50 (first-come-first-served). A copy of HKIE Membership Card must be presented together with the registration form.
- ※ Cancellation will be accepted only in writing via email, no later than two weeks before the function commences, and only 50% of registration fee will be refunded.

#### Payment :

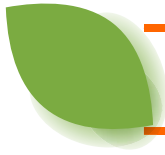
I enclose a crossed cheque no \_\_\_\_\_ for the amount of HK\$ \_\_\_\_\_ payable to “The HKIE Environmental Division”.

Please complete the form and return it together with appropriate payment to the Forum Secretariat,  
c/o **C & C Agency Limited**

Rm T302, 8 Fung Mat Road, Sai Ying Pun, Hong KONG  
Tel: 6937 5399 ; Email HKIEEVDAnnualForum@gmail.com  
Event Website: <http://ev.hkie.org.hk/>

*“Driving New Metropolis in GBA Towards*

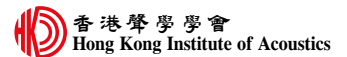
*Climate Resilience and Sustainability”*



## SUPPORTING ORGANIZATIONS



Hong Kong Chapter



*“Driving New Metropolis in GBA Towards*

*Climate Resilience and Sustainability”*