

Annual Report

Environmental Division, HKIE (2024-25)

Dear HKIE Members, Colleagues, and Friends,

As my term as Chairman of the Environmental Division of the Hong Kong Institution of Engineers (HKIE) comes to a close, I would like to take this opportunity to reflect on my term, express my gratitude, and share my hopes for the future. Serving in this role has been both an honor and a deeply rewarding experience, and I am immensely proud of what we have achieved together.

The past 10 months has been one of challenges and opportunities, particularly as Hong Kong continues to navigate the complexities of sustainable development, climate action, and environmental resilience. Our division has played a crucial role in advancing discussions, fostering innovation, and advocating for policies that prioritize environmental protection alongside engineering excellence. Among our primary objectives and key achievements:

- Promote knowledge and experience sharing: We organized a series of seminars, webinars, and technical visits, covering critical topics such as carbon neutrality, waste management, green building technologies, and climate adaptation strategies. These events provided valuable insights and facilitated meaningful exchanges among members and professionals.
- Nurture young generation: Strengthening ties with schools, universities and young engineers has been a priority. Through competitions, awards and networking events, we encouraged the next generation to take an active role in environmental engineering.
- Engage our members: We worked closely with other HKIE divisions, professional organizations, and international bodies to promote interdisciplinary approaches to sustainability challenges. Through active supporting of events or conferences which fall into the ambit of environmental engineering, our members enjoyed more opportunities for learning, exposure and networking.
- Raise the standing of engineers: We actively contributed to policy discussions, providing technical expertise to government bodies and stakeholders on issues such as Hong Kong's Climate Action Plan 2050, sustainable infrastructure, and circular economy practices.

None of these accomplishments would have been possible without the unwavering support of our dedicated committee members, helpers and the broader HKIE community. I am deeply grateful for your time, hard work, expertise, enthusiasm and commitment to advancing our mission. I would also like to acknowledge the support of the HKIE Council and our corporate partners, whose collaboration has been instrumental in amplifying our impact.

While we have made significant progress, the work is far from over. Climate change, pollution, climate resilience and resource scarcity remain pressing challenges that demand continued innovation and leadership from the engineering community. I encourage the incoming committee to build on our momentum by:

- Expanding Young, Public & Industry Engagement: Strengthening outreach to schools, policymakers, businesses, and the public to drive systemic change.
- Embracing Emerging Technologies: Promoting the adoption of smart environmental solutions, AI-driven sustainability tools, and green finance mechanisms.
- Enhancing Global Collaboration: Leveraging GBA and international networks to share best practices and align with global sustainability goals.

Serving as Chairman has been a privilege, and I am confident that the Environmental Division will continue to thrive under new leadership. As I step down, I remain committed to supporting the Division's work and contributing to Hong Kong's sustainable development journey.

Thank you once again for your trust, collaboration, and friendship. Let's keep pushing boundaries, inspiring change, and engineering a greener future for generations to come.

Warm regards,
Ir Dr Raymond K.L. Chan
Chairman (2024-25)
Environmental Division
The Hong Kong Institution of Engineers (HKIE)

Environmental Division
環境分部

Environmental Division

AGM 2025

Annual Report

Vision of HKIE's Environmental Division



- First established in 1986 with the following aims:
 - a. To encourage our Engineers to be environmentally aware to **engineer a sustainable and efficient future**;
 - b. Promote the general advancement of science, technology and practice of the Division;
 - c. Encourage and **foster a spirit of friendly collaboration** amongst its members and with members of similar institution, societies or other professional bodies;
 - d. Facilitate the **exchange of information and ideas** in relation to the Division;
 - e. Contribute to **raise the standing of engineers**.

Primary Objectives in Session 2024/25

- Promote knowledge and experience sharing
- Nurture young generation
- Engage our members
- Raise the standing of engineers

Echoed the HKIE's Theme
“Grow The NeXus,
Link The Links”



Promote Knowledge and Experience Sharing

- Technical Seminars, Symposiums and Conferences
- Over 30



Promote Knowledge and Experience Sharing

➤ Technical Seminars, Symposiums and Conferences

ORGANIZER: SUPPORTING ORGANIZATIONS:

BUILDING THE FUTURE - BUILT ENVIRONMENT RELATED ISSUES IN THE GREEN AND SMART ERA

CONFERENCE ORGANIZED BY ASIAN INSTITUTE OF BUILT ENVIRONMENT

第三屆海峽兩岸暨港澳 城市建設與持續發展科技論壇

第三屆海峽兩岸暨港澳城市建設與持續發展科技論壇

The 3rd Cross-Strait, Hong Kong, and Macau

Urban Construction and Sustainable Development Science and Technology Forum

日期 Date: 2024.10.31
地點 Venue: 九龍香格里拉酒店宴會大禮堂
The Grand Ballroom, Kowloon Shangri-La

Organized by: **Supported by:**

Venue Sponsored by:

Engineering Adventures: A Colourful Path of Innovation

Date: April 30, 2025
Time: 7:00pm to 8:30pm
Venue: TU201, The Hong Kong Polytechnic University

Organizer: **Supported by:**

Workshop on Low Altitude Economy Technologies with Application in Buildings

Organized by
The University of Hong Kong; and
Building Services Operation and Maintenance Executives Society
-This is an Official and Core activity under the CPD Scheme of the Property Management Services Authority-

Date, Time & Venue

Date : 17 May 2025 (Saturday)
Time : 09:30 a.m. to 12:30 a.m.
Venue : Room MWT6, 1/F, MengWah Complex, the University of Hong Kong
(Refer the location map in last page)

Promote Knowledge and Experience Sharing

➤ Technical Visits



Visit to Hilti Experience Centre

Visit to Huawei



Technical Visit to TKO Desalination Plant



Technical Visit to Tica-SMARDT Guangzhou Factory



Visit to CLP Pulse

Promote Knowledge and Experience Sharing

➤ Publications in Hong Kong Engineer Journal – Climate Change Corner

Engagement with HKIE

- The Environmental Division is engaged with the HKIE in the preparation and bi-monthly publication of articles on climate change and emerging sustainability issues for knowledge and experience sharing in the Climate Change Corner column under the ***Hong Kong Engineer Journal***. As such, five publications have been completed over 2024/2025 Session.

Scope of Publications

- The publication scope consists of climate engineering innovations, climate impact scenarios, resilience, green innovation, climate risk assessment model and intelligence, decarbonization strategy, zero-energy building, net-zero objectives and strategic approach for Hong Kong, corporate sustainability, sustainable finance etc.

Young Members Capacity Building

- The knowledge and experience sharing is also associated with young members' capacity building within our Division; young members are provided with this opportunity to perform research, learn and improve their technical writing capacity on emerging climate and sustainability hot topics.

Promote Knowledge and Experience Sharing

➤ Publications in Hong Kong Engineer Journal – Climate Change Corner

Vol. 52 Aug 2024

**Zero-Carbon-Ready
Building Scheme: Design
trade-offs strategy for life
cycle carbon emission in
new buildings**

Vol. 52 Oct 2024

**Scaling-up climate technology
implementation for real estate
sustainability in the GBA: A
greenprint system change
approach**

Vol. 52 Dec 2024

**Net zero under the Science
Based Target Initiative (SBTi):
Reforming the scope-3
setting and implementation
as an urgent imperative**

Vol. 53 Feb 2025

**Framework for managing
value chain emissions
towards net-zero under the
new SBTi Standard: Salient
requirements and
implementation process**

Vol. 53 Apr 2025

**Scaling-up The Marrakech
Partnership for Global
Climate Action (MPGCA)
as a strong catalyst for the
net-zero future**

Promote Knowledge and Experience Sharing

➤ Annual Forum

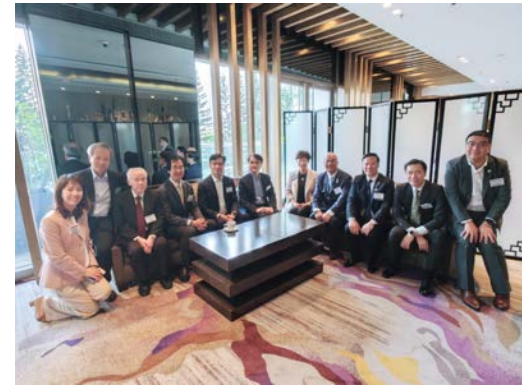
Date: 15 April 2025

Venue: Crowne Plaza Hong Kong Kowloon East

Theme: “Climate Governance through Environmental Mitigation and Adaption: Challenges and Opportunities for Engineers”

- Opening Address – Ir Alice Chow, SVP of HKIE
- Keynote Address – Ir Dr. The Hon Lo Wai Kwok, GBS, MH, JP, the Legislative Councillor, Mr. Arthur Lee, Commissioner for Climate Change, Environment and Ecology Bureau;
- Session I – Sustainable Water Environment
- Session II – Nature-Inspired Strategies in the Built Environment
- Session III – Waste and resource Technologies
- Session IV – ESG Innovation for Climate Resilience and Sustainability

Over 220 attendants joined the Annual Forum.



Nurture Young Generation

➤ Best Final-Year Environmental Project Award

- Events organized since 2018
- Recognize the efforts of full-time students in completing good quality final year projects
- Encourage the student to continue their effort in improving the environmental engineering practice in their future careers
- Champion: A certificate and a cash award of HK\$6,000
- 1st Runner Up: A certificate and a cash award of HK\$4,000
- 2nd Runner Up: A certificate and a cash award of HK\$2,000
- Announcement in late June to early July 2025

Calling for Paper

Nurture Young Generation

➤ Reaching-out Activities and Career Talks in 2024/2025



Nurture Young Generation

- HKIE x ICE : Joint Webinar on “Unleashing Innovation: Exploring AI Applications in Engineering” (2 Apr 2025)

HKIE President’s Protégé x ICE Future Leaders

A young force driving the engineering industry



The Hong Kong Institution of Engineers
President’s Protégé Scheme 2024/25



The President's Future Leaders Scheme 2024-25
of Institution of Civil Engineers

Engage Our Members

➤ Annual Reception 2024/2025

Date: 26 November 2024

Venue: The CityView

Guest of Honour: Ms Diane Wong, JP, Under Secretary for Environment and Ecology
Over 100 attendees from various sectors joined the Annual Reception.



Engage Our Members

➤ Best Environmental Paper Award 2024

- Objective of the Award is to recognize engineers' efforts in any environmental research and projects in which environmental pollution control and sustainable development, themes covering:

reduction of greenhouse gas emissions

use of renewable energy, minimization

of energy consumption in buildings

carbon audit and management,
waste recovery and recycling

solid waste management, water
and wastewater treatment

Environmental impact assessment

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香港工程師學會

Environmental Division
環境分部

2024-2025
Best Environmental Paper Award

BACKGROUND
This Award is established in memory of the late Ir Peter H K Chan, a past Chairman of HKIE's Environmental Division

OBJECTIVE
The primary objective of the Award is to recognize engineers' efforts in any environmental research and projects in which environmental pollution control and sustainable development, such as reduction of greenhouse gas emissions, use of renewable energy, minimization of energy consumption in buildings, carbon audit and management, waste recovery and recycling, solid waste management, water and wastewater treatment, and environmental impact assessment are fully considered and properly addressed. This Award is intended to encourage widespread emergence of environmentally sound projects.

SUBMISSION PROCEDURES
All submission should be sent to Ir Peter Chow via email at peter.chow@towngas.com

DEADLINE OF SUBMISSION
28 February 2025

CRITERIA
At least one of the co-authors must be HKIE member. Papers will be assessed based on:

- Innovation
- Environmental performance
- Contribution to sustainable development
- Comprehensiveness and coverage
- Logical arguments
- Presentation and clarity
- Plagiarism-free*

AWARDS
There will be two streams of submission this year, one is "Individual" stream and the other one is "Group" stream. Please clearly indicate your intended stream in your submission

The Champion Prize for this Award is HK\$ 10,000, the Runner-up Prize is HK\$ 5,000, and Merit Prize is HK\$500. Each awardee will be presented with a Certificate. The HKIE Environmental Division reserves the right to allocate the prizes.

ENQUIRY
Please contact Ir Peter Chow (peter.chow@towngas.com) or visit the website at <http://ev.hkie.org.hk> for more information

* Please note that a plagiarism checker will be used.

- Judging Panel – Ir C.F. Lam / Ir P.C. Lo / Ir Kelvin Tang / Ir C.S. Lam / Ir Vincent Lee
- Received a total of 14 paper submissions

The award presentation ceremony will be held at HKIE HQs on 6 May 2025 (after the AGM).

Raise the Standing of Engineers

➤ Connecting with Various Relevant Professional Bodies



CIWEM



Green Council



HKWMA



HKIQEP



AIBE



PolyU

Raise the Standing of Engineers

➤ Connecting with Various Relevant Professional Bodies



EIHK



HKAEE



AEE HKC



HKEMA



BEC



Eco Expo

Supporting to Government Initiatives

HKIE ENVIRONMENTAL DIVISION TECHNICAL SEMINAR SERIES FOR "NATIONAL ECOLOGY DAY" 2024

Aug 21 **Creating Living Shorelines through Ecological Engineering**
Series 1
Professor Mr. Kenneth LEUNG Mei Yee
Dean of the School of Energy and Environment and as the Director of the State Key Laboratory of Marine Pollution at City University of Hong Kong

Aug 23 **Harnessing Nature's Genius: Nature-Based Design for a Sustainable Future**
Series 2
Mr. Jamie Miller (Director of Biomimicry, Surbana Jurong Group) & Mr. Barry Day (Asia Landscape Design Director, Surbana Jurong Group)

Aug 30 **Enhancing River Biodiversity by Nature-based Solutions**
Series 3
Ms. Julia CHAN Wing Yin
Environment & Society Director, Asia of Mott MacDonald

REGISTER NOW [More info ev.hkie.org.hk](http://ev.hkie.org.hk)



環境保護署
Environmental Protection Department

Wrap It Light
包少啲

減少使用包裝約章
Packaging Reduction Charter

感謝狀
Certificate of Appreciation

頒予
is presented to

HKIE THE HONG KONG INSTITUTE OF ENGINEERS
香港工程師學會
Environmental Division
環境分部

2025年3月31日
31 March 2025

成為上述約章的支持機構並推動可持續包裝
For serving as the Supporting Organisation of the above Charter and promoting sustainable packaging



碳中和
Carbon Neutrality

新世代
怪神夫比拚3.0
Energy Saving Championship Scheme
Competition for Students

目的 Objective
啟發年輕人的創意及想象力，鼓勵他們發展可持續發展及可再生能源，邁向2050年前實現碳中和
Inspire creativity and imagination in youth towards carbon neutrality before 2050 by energy saving and wider adoption of renewable energy

參賽組別 Categories

小學組別 Primary School Category	中學及專上學院組別 Secondary & Post-secondary School Category
小學生可以個人形式參賽，及鼓勵學生和家長一同參與。 Individual student of primary school is eligible and participation of the student, parent(s) / guardian(s) is also welcome.	中學 / 專上學院學生可以個人或小組形式 (最多6名學生) 參賽。 Students of secondary / post-secondary school is eligible.

獎項 Awards

至尊怪神夫獎 Hesson Grand Award 得獎者可得HK\$2,000現金獎券一張 HK\$2,000 Voucher & Certificate per winner	至尊怪神夫獎 Hesson Grand Award 得獎者可得HK\$2,000現金獎券一張 HK\$2,000 Voucher & Certificate per winner
卓越怪神夫獎 Hesson Outstanding Awards 得獎者可得HK\$1,000現金獎券一張 HK\$1,000 Voucher & Certificate per winner	卓越怪神夫獎 Hesson Outstanding Awards 得獎者可得HK\$1,000現金獎券一張 HK\$1,000 Voucher & Certificate per winner
傑出怪神夫獎 Hesson Merit Awards 得獎者可得HK\$500現金獎券一張 HK\$500 Voucher & Certificate per winner	傑出怪神夫獎 Hesson Merit Awards 得獎者可得HK\$500現金獎券一張 HK\$500 Voucher & Certificate per winner
積極參與學校獎 Outstanding Participation School Award 得獎者可得獎狀一張 Certificate per winner	積極參與學校獎 Outstanding Participation School Award 得獎者可得獎狀一張 Certificate per winner

比賽詳情 Competition Details
詳情請參閱此處。Please refer to the webpage for details: www.energysaving.gov.hk/techamp2023

查詢 Enquiry
電話 Tel: 3155 3877
電郵 E-mail: techamp2023@emad.gov.hk

截止報名日期 Application Deadline
12-1-2024

Participation and Supporting to HKIE

➤ HKIE Sport Fun Day



Dear members

Building on the success of the Table Tennis Fun Day held in December 2024, the Task Force on Communal Sports and Social Service is thrilled to announce that the Golf Fun Day would be held on 8 February 2025.

The **Golf Fun Day** is open to all HKIE members, and we cordially invite you to join this extraordinary event to connect with fellow golf enthusiasts. **Beginners are also welcome!**

➤ HKIE Bowling Competition



Participation and Supporting to HKIE

➤ HKIE Presidential Address / Dinner



Participation and Supporting to HKIE

➤ HKIE 50th Anniversary Dinner



Thank you!