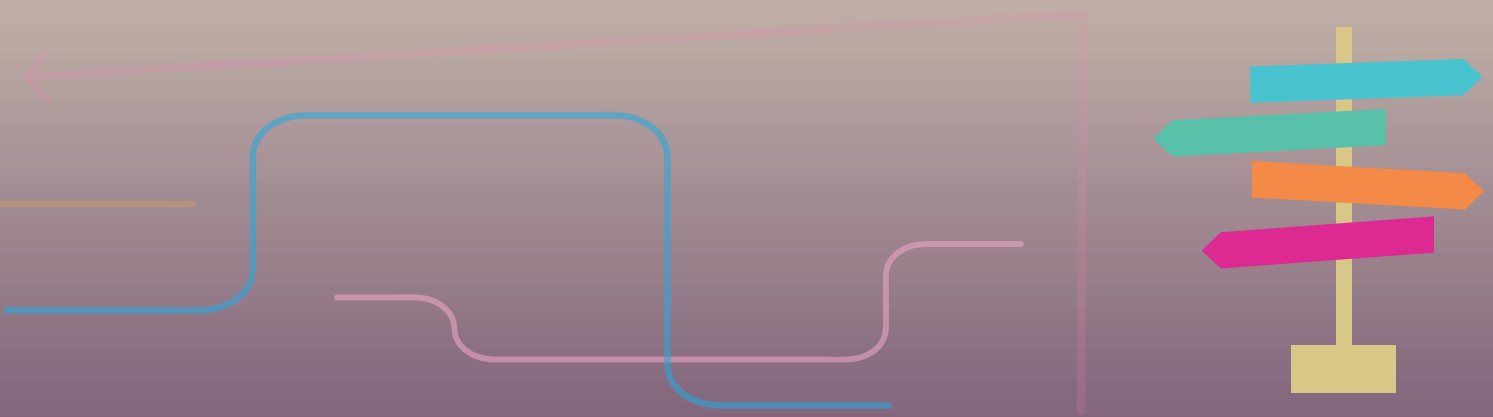




Hong Kong Engineers Week 2024

March 2024



建造香港

Building Hong Kong's Future

1200+
全職員工

40
經營年資

335
個項目

100+
個獎項





OPTIMIZATION
INNOVATION
CREATIVITY

China Road and Bridge Corporation (CRBC) mainly undertakes contracting, investment, development and operation of road, bridge, port, railway, airport, tunnel, real estate and industrial park projects. With branches and offices in nearly 60 countries and regions global, CRBC has established an efficient and rapid market network.

CRBC has over 36 years' experience in Hong Kong construction market. It is registered on the List of Approved Contractors for Public Works for Group C kept by Development Bureau under all five categories including Buildings, Port Works, Roads and Drainage, Site Formation and Watermains.



中國路橋工程有限責任公司
CHINA ROAD AND BRIDGE CORPORATION

Foreword

Celebrating the Success of Hong Kong Engineers Week 2024

It is with great pleasure and profound gratitude that I extend my sincerest greetings to all distinguished participants and steadfast supporters of the momentous Hong Kong Engineers Week 2024 (HKEW 2024).

A full range of preludes finally culminated in this week-long extravaganza. HKEW 2024 holds a special place in our hearts, transcending celebration of engineering excellence to serve as a powerful platform for inspiration and engagement, particularly for the younger generation. As we confront the lamentable talent shortage plaguing the engineering industry, this event assumes critical importance, demanding our collective resolve to confront this challenge head-on. It is incumbent upon us to showcase the vast array of engineering disciplines and their profound impact on our daily lives, fueling the aspirations of the next generation to chart their professional journey in engineering.

The theme for this year, “Be the Change • 不一樣,” resonates as a clarion call to fellow engineers. Being different means having a distinctive perspective and reservoir of ideas, capable of infusing fresh insights into problem-solving and decision-making. It entails harnessing a diverse skill set to contribute towards collective objectives, cultivating an environment that nurtures creativity and innovation, fostering

adaptability and resilience in the face of dynamic and ever-evolving landscapes, and, crucially, forging connections with a diverse range of individuals, communities, and opportunities. It is our very diversity and uniqueness that shall attract the next generation of engineers.

HKEW 2024 stands as a testament to the collaborative spirit that pervades our engineering community. It unites engineers, industry leaders, educators, and government representatives to share knowledge, exchange ideas, and forge meaningful partnerships. HKEW 2024 is not just a celebration, it is a call to action, an opportunity to shape the future of our industry, and an empowering impetus for young minds to embark upon engineering careers.

This year, we were honoured to have Ms Bernadette Linn, JP, Secretary for Development, as our Guest of Honour at the opening ceremony of the Hong Kong Engineers Week Carnival, along with Mr YE Shuiqiu, the Deputy Director-General of the Department of Educational, Scientific and Technological Affairs of the Liaison Office of the Central People’s Government in the Hong Kong Special Administrative Region (LOCPG), as an officiating guest. Their presence and support represented the significant backing of both the Government and the Central Government, highlighting

their commitment to promoting the engineering industry and recognising its importance in our society.

Public response to the Carnival was overwhelming. The interactive booths, VR demonstrations, and live performances captivated people of all ages, leaving smiles on their faces. The primary and secondary student contests nurtured creativity and deepened appreciation for engineering, while the Guangdong-Hong Kong-Macao Greater Bay Area Tertiary Institution Innovation Project Invitational Competition promoted teamwork and knowledge exchange with students across the border. The professionalism of Hong Kong’s young engineers was showcased through the “Engineer Alliance”, inspiring others with their talents and skills.

The Career Fairs provided valuable opportunities for students to gain insights into the engineering industry and plan their future careers. Additionally, the HKIE Grand Award 2024 honoured members who made significant contributions to the development of the engineering industry.

Our heartfelt appreciation extends to all individuals, organisations, and sponsors whose unwavering support has contributed immeasurably to the resounding success of HKEW 2024. Your support epitomises your enduring dedication to the advancement of the engineering profession.

Together, let us etch a legacy that shall inspire generations to come, ensuring enduring prosperity for the engineering industry in Hong Kong and beyond. As we celebrate the grand success of HKEW 2024, let us carry forward the spirit of excellence, innovation, and collaboration as we continue to shape the future through engineering.



Ir Dr Barry LEE Chi-hong
President of the HKIE (Session 2023/2024)



綻放永續未來



作為香港歷史最悠久的能源公司，煤氣公司不斷創新，將公眾利益視為企業發展的基石。我們不僅積極發展潔淨能源，例如氫能、光伏發電和其他可再生能源，致力節能減排、保護環境；同時亦一直心繫社群，堅守履行企業社會責任的承諾，為社會的弱勢社群略盡綿力。

在企業發展的歷程中，我們致力在環境、社會及管治 (ESG) 範疇力臻完美，並以此作為我們業務運營的首要考慮，務求以更強的韌性應對各種挑戰。面對氣候變化帶來的挑戰，我們將繼續投資減碳項目，並與全球業界一起面對，同時致力保障各持分者的利益、營造積極正面的影響。

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Go beyond
載向綠色未來

大型綠化天台

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致力節能減排及加強車站綠化，推動環保低碳生活！

Committed to energy saving, emissions reduction and greening of stations, to promote a green and low-carbon lifestyle!

Event
Highlights

Event Overview

Celebrating the remarkable achievements of the engineering profession, Hong Kong Engineers Week 2024 (HKEW 2024) stands as the eminent flagship event in the industry’s calendar. With a resolute theme of “Be the Change • 不一樣”, this momentous occasion serves as a catalyst to elevate the image and prominence of the HKIE, while simultaneously showcasing the indomitable spirit and transformative contributions of engineers to the public and key stakeholders within Hong Kong’s engineering industry.

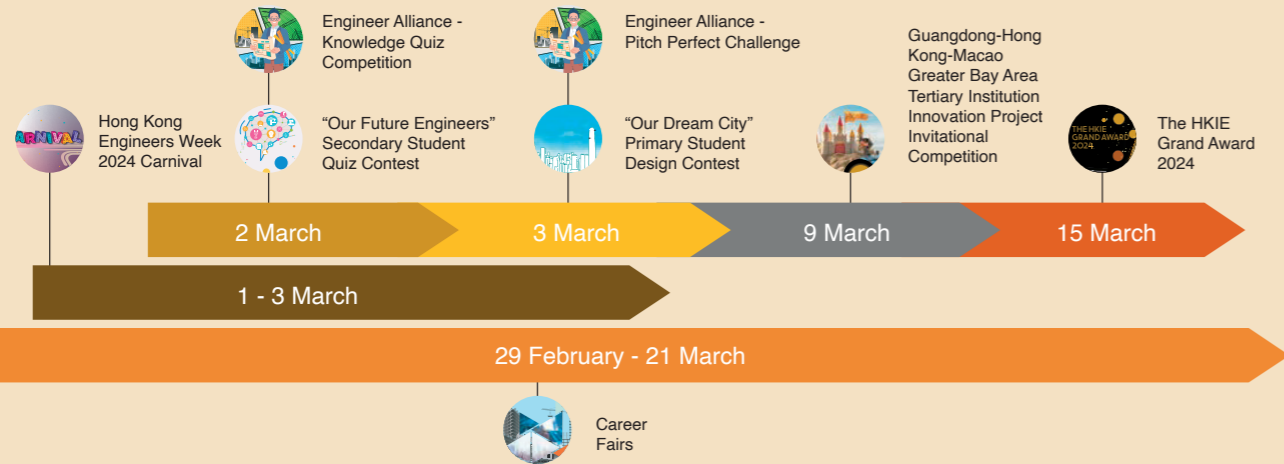
HKEW 2024 aspires to ignite a passion for engineering in the hearts of students, deepen collaboration among universities, and emphasise the significance of engineering in our daily lives. This platform has facilitated invaluable exchange experiences, broadened horizons, and fostered meaningful connections beyond the engineering community.

Among the vibrant lineup of captivating activities the HKEW 2024 offered, the “Hong Kong Engineers Week 2024 Carnival” set the stage for an immersive experience, fostering an environment of exploration and discovery. The “Engineer Alliance” initiative united like-minded young professionals in a collaborative endeavour, amplifying the collective expertise and vitality of the engineering community.

Notably, HKEW 2024 extended its reach to the budding talents of tomorrow, with the “Our Future Engineers’ Secondary Student Quiz Contest” stimulating intellectual curiosity, and the “Our Dream City’ Primary Student Design Contest” harnessing the creativity of young minds to shape a vision of an ideal urban landscape. Demonstrating a commitment to regional collaboration, the “Guangdong-Hong Kong-Macao Greater Bay Area Tertiary Innovation Project Invitational Competition” established a platform for cross-boundary knowledge exchange and innovation. Career Fair organised also facilitated dynamic interactions between industry leaders, aspiring professionals, and emerging talents.

The illustrious “HKIE Grand Award 2024” honoured exceptional achievements that epitomise engineering excellence. This prestigious accolade recognised visionary endeavours and groundbreaking innovations that have the potential to redefine industries, improve lives, and reshape our world.

As we embark on this remarkable journey of knowledge exchange, collaboration, and celebration, HKEW 2024 presented an unparalleled platform to illuminate ingenuity of engineering for our future.



The HKIE Grand Award 2024

The prestigious HKIE Grand Award 2024, now in its second edition, stands as the pinnacle of recognition within the engineering community. This flagship award scheme was inaugurated in Session 2022/23 to carry forward the HKIE's steadfast commitment to championing the exemplary achievements of engineers who have contributed to Hong Kong's development.

The diversity of such achievements is acknowledged and reflected in the design of the award scheme itself, with three major categories — Innovation, Industrial, and Infrastructure — corresponding to three areas in which engineers typically exercise their talent.

The Innovation Category gives prominence to the virtue of originality, covering new engineering inventions and existing technologies' innovative applications across all 22 engineering disciplines. Special recognitions for young members are also in place under this category to encourage the next generation to innovate. The Industrial Category honours engineering successes in consumer-related products, industrial equipment, and information technology. The Infrastructure Category celebrates impactful engineering projects in sectors like transportation, public utilities, healthcare, environment and more. This year, an impressive number of 41 entries have been received, reflecting the enthusiasm and dedication of the engineering community in Hong Kong.

Innovation Category

Sub-category I – An Invention (All Member Group)

Grand Prize

Awardee:
Ir Prof NGAN Hing-wan, Alfonso

Project Title:
Rate-jump method for nanomechanical testing

“As a professor for 30 years, I have been doing fundamental research, mostly for pure academic interest. But then came a wake-up call that what is important is whether the research can lead to something useful. The rate-jump method was developed initially from a purely academic attempt with a lot of papers published, but to achieve real impact, I took the further step to turn it into a GB National Standard, which has made a difference.”

Certificates of Merit

Awardees:
Ir HO Man-hoi; Ir LAW Tsz-wai; Ir CHEUNG Pik-sin, Carry and Mr HO Kin-tung, Tony

Project Title:
GOOD Grab (“Generative AI Object-Oriented Debris” Grab)

“It is with great pride that the DSD team receives recognition from HKIE for our invention, the GOOD Grab, which stands at the forefront of innovation in stormwater management. This recognition not only showcases our commitment to innovative engineering in the face of climate change but also celebrates our spirit of integrating cutting-edge Generative AI and Vision Language Models into machinery within our industry. Our vision for a safer, more efficient stormwater management system has been realised through the GOOD Grab. We have set new standards for safeguarding lives and livelihoods against flooding. With great enthusiasm, we look forward to advancing the reach of our invention beyond Hong Kong, contributing to global advancements in environmental safety and sustainability.”

Awardees:
Ir KWOK Wang-mo, Thomas; Mr CHOW Pak-hong; Ir CHAN Lung-wai, Chris and Mr WONG Wai-lam

Project Title:
Smart Antifouling Seawater Screen for Cooling System in Hong Kong

“We are delighted to receive the Certificate of Merit of the HKIE Grand Award 2024. We would like to express our gratitude to the Hong Kong Institution of Engineers for the opportunity to share our innovative idea. It is our honour to receive recognition from the professional judges.

We would like to thank our management and colleagues in the Electrical and Mechanical Services Department for fostering our innovative culture and driving towards the success of this project.”

Sub-category I – An Invention (Young Member Group)

Certificate of Merit

Awardee:
Mr CHENG Yau-chung

Project Title:
Distributed Real-time Autonomous-optimisation-based Feedback Control in Microgrids

“I am incredibly grateful for the award and deeply humbled by the recognition. I would like to express my heartfelt gratitude for this opportunity to showcase my work in the field of control and optimisation of dynamic systems to HKIE. Designing the new optimisation-based real-time control algorithm was not an easy task, and I faced many failures along the way. This award has given me more dedication and self-confidence in engineering. Thank you so much for this amazing honour.”

Sub-category II – An Innovative Application (All Member Group)

Grand Prize

Awardees:

Ir LAU Hoi-fung, Ir Prof TSO Chi-yan, Dr CHAN Ka-chung and Ir LEUNG Chi-fai

Project Title:

iPaint AI and related best practices

“Winning the competition with “iPaint AI and related best practices” for Times Square brings us joy. The project was first known to the public by winning the Renovation Award of Excellent Intelligent Green Building 2023, followed by the Grand Award - Building Products & Technologies Category of the Green Building Award 2023. This HKIE Grand Award further reinforces our commitment to sustainability, and we remain dedicated to implementing innovative technologies in the property industry for a greener future.”

Certificates of Merit

Awardee:

Ir LAI Kam-hung, Steven

Project Title:

ATAL Multi-Stages Flocculation Sedimentation III (AMSFS III) x AlgoWater

“ATAL Multi-Stages Flocculation Sedimentation III (AMSFS III) x AlgoWater’s journey from the initial concept to the finished product was marked by countless trials and challenges. During the development phase, our team effectively utilised the expertise and collaboration of our Group’s regional teams from Hong Kong, Nanjing, and Shanghai. We would like to extend our heartfelt gratitude to HKIE for recognising our Group with this prestigious honour, as it serves as a profound motivation to continuously refine and advance our product.”

Awardee:

Ir IU Pun-yan

Project Title:

A revolutionary technological approach in Mountain Search and Rescue Operations

“The Hong Kong Fire Services Department has demonstrated a steadfast commitment to the development of innovative technologies for the enhancement of mountain search and rescue operations, with an aim to increase the likelihood of successful rescue operations.”

Our application utilised AI engines and advanced information from the mobile network operators to perform 3D viewshed analysis, which accurately and quickly locates missing person on mountains. Our application was recognised with a Certificate of Merit at the HKIE Grand Award 2024, which was a great honour and encouragement for us. We are thankful for the opportunity to share our experience with the engineering community and the public.”

Sub-category II – An Innovative Application (Young Member Group)

Grand Prize

Awardees:

Ir NG Ka-chun; Mr SO Tin-ching; Miss NG Chak-lam, Rica and Mr CHAN Wai-ching, Charles

Project Title:

Intelligent Safety 2.0 for Light Rail Utilising IoT, AI & Computer Vision

“We are delighted and honoured to have emerged victorious in the competition. Our journey to success has been a testament to our team’s dedication, hard work, and innovative spirit. Winning this competition validates our efforts and fills us with immense pride. We are grateful to take part in the journey of enhancing transportation safety, and we look forward to further advancing the engineering industry with our groundbreaking solutions.”

Certificate of Merit

Awardee:

Ir LEUNG Kin-fung, Calvin

Project Title:

Mass Deployment of AI-based Chiller Energy Optimisation using Semantic AI Approach and Large Language Model (LLM)

“Thank you for this award. I’m truly grateful and it’s an honour to have my efforts noticed. Knowing that AI is changing engineering so much, I’m thrilled to be part of that future. This recognition has boosted my enthusiasm to continue working on what I love. Thank you once more for this incredible honour.”



(L to R) The panel of judges for the Innovation Category: Panel Members Ir Norman S W CHAN, Ir Prof Frank F CHAN, Panel Chair Ir Dr Barry LEE Chi-hong, and Panel Members Ir Aaron K M BOK and Ir Ambrose H T CHEN

Industrial Category

Certificate of Merit

Awardee:

Dr YANG Haokun

Project Title:

High-Strength Steel Intelligent Process Database Based Pre-programmed Multi-Point Positioning Arc-welding Technology

“感謝香港工程師學會對我們的高強鋼智慧焊接技術的認可，感謝香港創新科技署在扶持企業技術創新與發展的資金支援，感謝生產力局與和利鋼鐵有限公司在研發過程中提供的實驗平台與實踐場地。該專案的研發成果，希望能夠幫助到更多的本地和大灣區工程師能夠在更加安全和舒適的環境中開展工作。創新-成就智上！”



(L to R) The panel of judges for the Industrial Category: Panel Members Ir Fanny P Y TING, Ir Dr Eric S L LIU, Mr Steve CHUANG, Prof Alan K T LAU, Panel Chair Ir Dr The Hon LO Wai Kwok, and Panel Members Ir Alice K T CHOW, Ir Prof Louis F S LOCK, Ir TSE Lok Him and Ir Alex W K WONG

Infrastructure Category

Grand Prize

Awardees:

Ir LEUNG Chung-lap, Michael and Ir TSANG Hing-kai, Ivan

Project Title: Tseung Kwan O - Lam Tin Tunnel

“Striving for engineering excellence is our mission. With the vision to engineer Hong Kong’s development, our project teams – EDO of CEDD, AECOM, contractors, sub-contractors, and suppliers – excelled themselves in delivering the Tseung Kwan O - Lam Tin Tunnel under a most compressed programme amid an unprecedentedly arduous time. We are indebted to the unwavering support of enabling authorities and stakeholders in accomplishing this very challenging project, and take pride that it yielded substantial benefits to the community and people’s livelihood.”

Certificates of Merit

Awardees:

Ir YAN Chun-ho; Ir CHEUNG Kin-wai, Chris and Mr HO Siu-wai

Project Title:

Tung Chung New Town Extension - Reclamation and Advance Works

“One project, one team, one goal is always the spirit of the project team of Tung Chung New Town Extension – Reclamation and Advance Works. This is the foundation of our success. We do not only build new land but also craft the future

with innovations, including the first sustainable eco-shoreline in a public works project as well as advancing completion of the reclamation works through the innovative and sustainable technique, deep cement mixing.”

Awardees:

Ir CHOY Man-ye; Ir LIU Lik-hang, Rex and Ir WONG Fai

Project Title:

Enhancement works for Kwun Tong sewage pumping station

“Placing sewerage facilities and rooftop park together in a single site is definitely a once-in-a-lifetime experience. Thanks to the passionate and energetic team members, an innovative and creative rooftop park and the associated promenade (collectively named as Cha Kwo Ling Promenade) was finally materialised. With the successful application of “Single Site, Multiple Use”, most visitors shared wonderful memories of this “Playful Nature” park, particularly the novel play facilities, attractive landscape features and stunning sea view.”



(L to R) The panel of judges for the Infrastructure Category: Panel Members Ar Benny CHAN, Ir Albert CHENG, Panel Chair Ir CHAN Chi Chiu, and Panel Members Ir Eric MA, Sr Francis LAM and Mr Emil YU

Hong Kong Engineers Week 2024 Carnival

The Hong Kong Engineers Week Carnival, held from 1 to 3 March 2024 at Harbourside Lawn, West Kowloon Cultural District, was a resounding success, achieved a remarkable attendance rate of over 46,000. The highlight of the Carnival was the distinguished opening ceremony, graced by notable guests including Ms LINN Hon-ho, Bernadette, JP, The Secretary for Development, Mr YE Shuiqiu, the Deputy Director-General of the Department of Educational, Scientific and Technological Affairs of the Liaison Office of the Central People's Government in the Hong Kong Special Administrative Region (LOCPG), and Ir Ricky LAU Chun-kit, JP, the Permanent Secretary for Development (Works). They joined Ir Dr Barry LEE Chi-hong, the HKIE President, Ir Aaron BOK Kwok-ming, the HKIE Immediate Past President, Ir Eric MA Siu-cheung, the HKIE Senior Vice President, and Ir Prof Alfred SIT Wing-hang, the HKIE Chief Executive and Secretary, in officially inaugurating the event.

During the opening ceremony, Ms LINN expressed her enthusiasm for the diverse themes of the "Hong Kong Engineers Week" and their alignment with the goals of enhancing cooperation among members of the industry, attracting young talents, striving for innovation, and

emphasising participation and contribution in national development. She stated, "We hope to work with engineering professionals to build a sustainable future and to participate in and contribute towards the betterment of our nation."

Under the theme of "Be the Change," the Carnival featured over 45 game booths from HKIE, partners, and sponsors, showcasing engineering knowledge and technologies. These interactive exhibits not only bridged the gap between engineers and the public but also ignited curiosity and wonder in visitors of all ages. From awe-inspiring aircraft demonstrations to engaging virtual reality (VR) games, the Carnival brought the wonders of engineering to life, serving as a source of inspiration for the younger generation to embark on their own paths of innovation and creativity.

The HKIE extends its deepest gratitude to the enthusiastic participation of the public, as well as the invaluable support from sponsors, supporting organisations and government departments, which contributed to the success of the Carnival. As the event came to a close, the memories and connections forged during this exceptional occasion continued to resonate in the hearts and minds of all participants.



The Carnival was kicked off by Ms Bernadette LINN Hon-ho, Secretary for Development of the HKSAR (3rd right); Mr YE Shuiqiu, Deputy Director-General of the Department of Educational, Scientific and Technological Affairs of the Liaison Office of the Central People's Government in the Hong Kong Special Administrative Region (3rd left); Ir Ricky LAU Chun-kit, JP, Permanent Secretary for Development (Works) of the HKSAR (2nd left), and accompanied by Ir Dr Barry LEE Chi-hong, HKIE President (centre); Ir Aaron BOK Kwok-ming, HKIE Immediate Past President (2nd right); Ir Eric MA Siu-cheung, JP, HKIE Senior Vice President (1st left); and Ir Prof Alfred SIT Wing-hang, JP, HKIE Chief Executive and Secretary (1st right).



President Ir Dr Barry LEE Chi-hong, Executives, Past President, Chief Executive and Secretary, Director and other guests at the Carnival



Over a hundred guests gathered at the opening ceremony and take pictures with the officiating guests



Student teams of "Our Dream City" Primary Student Design Contest introduced their works and shared their creative concepts and the engineering techniques applied in their "dream cities" with the guests



HKIE President Ir Dr Barry LEE Chi-hong giving an opening speech



Families learning about new technological and engineering breakthroughs



A variety of performances to liven up the carnival: freestyle football, yoyo, rope skipping, magic, dancing, and singing performances by Travis WONG and per se

Engineer Alliance



(L to R) Miro CHAN, Charles CHAN, Jessy NG, Anthony CHAN, Tammy LO, Hansel KWOK, Ivan NG, Michelle CHEUNG, Kenneth HO and Eva LEE

The Engineer Alliance was a unique event that aimed to showcase the diversity and professionalism of young engineers in Hong Kong. It provided an engaging platform for engineers to demonstrate their skills and expertise, while redefining public perceptions of the engineering profession. The event consisted of three stages: First Screening, Shortlist, and Finale, where participants were required to create pitch videos, take part in a knowledge quiz competition, and deliver a 10-minute presentation on stage. These presentations were evaluated by a panel of judges, as well as through public voting on social media platforms. After the initial screening process, five contestants were shortlisted from a pool of ten competitors, and from this shortlist, only five were selected to advance to the Finale held at the Carnival.

During the Carnival, the five finalists, Mr Anthony CHAN Chun-yip, Miss Miro CHAN Sum-chau, Ir Eva LEE Ho-yan, Mr Hansel KWOK Ho-yin and Miss Jessy NG Cheuk-sze, made their first public appearance. After rounds of exhilarating tasks and challenges, Ir Eva LEE emerged as the captain of the Engineer Alliance, with Miss Miro CHAN and Mr Anthony CHAN appointed as the vice captains. They have been awarded certificates and the opportunity to join a delegation trip with the HKIE President. This trip will provide them with invaluable experiences and insights in their engineering careers.



(L to R, front) Jury of the Engineer Alliance: Co-Chairman of the Career Fairs Organising Committee, Ir Tony ZA; Chairman of Hong Kong Engineers Week 2024 Carnival cum Engineer Alliance Organising Committee Ir William W L LUK; HKIE Vice President Ir Alice K T CHOW; and Chairman of the Guangdong-Hong Kong-Macao Greater Bay Area Tertiary Institution Innovation Project Invitational Competition Organising Committee Ir Prof Louis LOCK; (Back) HKIE President Ir Dr Barry LEE



Ir Eva LEE Ho-yan awarded the captain title of the Engineer Alliance



Miss Miro CHAN Sum-chau appointed as vice-captain



Mr Anthony CHAN Chun-yip appointed as vice-captain



Miss Jessie NG Cheuk-size and Mr Hansel KWOK Ho-yin receiving an ally certificate from Ir Tony ZA, Co-Chairman of the Career Fairs Organising Committee



The five finalists of the Engineer Alliance actively engaged in a battle of wits in the Quiz Competition

Voices of Achievement

“As the newly elected Captain of the Engineer Alliance, I would like to express my sincere gratitude to all my friends and colleagues for voting for me. Without your encouragement and support, I won’t be able to be that confident to go on stage for the public speech during the Hong Kong Engineers Week.

Together with my teammates, Anthony, Miro, Jessy and Hansel, we will join various engineering promotional events to share our own experiences and stories, so as to encourage more young and passionate students to choose engineering as their desired career, and we will work hard to strive for excellence and professionalism. Thank you!”

– Captain Ir Eva LEE

“Joining Engineer Alliance was an incredible journey of personal growth. I met amazing friends and tutors, expanding my engineering knowledge. Delivering a nerve-wracking 10-minute pitch alone honed my communication skills. I’m deeply grateful for the unwavering support from friends and family during the public voting phase. Being appointed Vice-captain is a true honour, and I encourage all to continuously support Engineer Alliance!”

–Vice-captain Miss Miro CHAN

“I am absolutely thrilled to have achieved the Vice Captain title in the Engineer Alliance during Hong Kong Engineers Week 2024. This journey holds special significance for me as it was my first time giving a pitch in front of the public. Overcoming my nervousness and delivering a compelling presentation was a major personal milestone. Being voted as Vice-Captain fills me with immense joy and gratitude. I am eager to embark on this unforgettable journey with the goal of promoting a young and vibrant image of Hong Kong engineers. Together, we will inspire and empower the next generation of engineering professionals.”

– Vice-captain Mr Anthony CHAN

“It was a wonderful experience to be part of the Engineer Alliance journey and getting to be one of the finalists! It feels amazing to make new friends that are devoted to serve together, as well as to have the valuable opportunity to conduct a public speech on stage. I would like to express my deepest gratitude to Ir Luk and the excellent team, the judges, my beloved and friends that encouraged, supported, and voted for me throughout the competition. Thank you for everything!”

– Ally Miss Jessie NG

“I am deeply honoured to be recognised as an awardee during the Hong Kong Engineers Week 2024 celebrations. My journey to success has been filled with challenges and dedication. This competition has been a testament to my relentless pursuit of excellence in engineering. I am grateful for the opportunity to contribute to the advancement of the field and inspire future generations of engineers. This recognition fuels my passion and motivates me to continue pushing boundaries in engineering for a better tomorrow.”

– Ally Mr Hansel KWOK

“Our Future Engineers” Secondary Student Quiz Contest

The “Our Future Engineers” Secondary Student Quiz Contest was designed to spark the interest of the next generation in engineering. The competition is open to teams of students from different secondary schools. HKIE members extend invitations to their alma mater and serve as mentors to give students guidance and advice on engineering.

The competition was conducted in a group Q&A competition format covering topics beyond popular science, the contest challenges students’ knowledge about engineering, the role of engineers, and Hong Kong’s development.

In the first-round contest, 12 teams participated, with only three teams making it to the finals, which were held on 2 March 2024. The three finalist teams, Immaculate Heart of Mary College, Shun Tak Fraternal Association Leung Kau Kui College, and Shun Tak Fraternal Association Yung Yau College, demonstrated their engineering and science knowledge at the Hong Kong Engineers Week Carnival.

The contest was intense, and the students demonstrated excellent performance. After two rounds of competitions, the Champion title was awarded to Shun Tak Fraternal Association Leung Kau Kui College, in recognition of their outstanding performance. They received trophies, certificates, and book vouchers worth HK\$5,000.

Through their interactions with practising professional engineers, the HKIE hopes to enhance students’ understanding of the engineering profession and encourage them to explore future career opportunities in the field of engineering.



Expert adviser team formed by five young engineers, providing professional guidance and advice to the contesting teams



Champion: Shun Tak Fraternal Association Leung Kau Kui College



First runner-up: Immaculate Heart of Mary College



Second runner-up: Shun Tak Fraternal Association Yung Yau College

Voices of Achievement

“We are honoured to have the chance to take part in the competition. It was a truly fun and valuable experience for all of us to learn more about engineering. Winning the competition is definitely a bonus that none of us have ever anticipated – it also brings us a sense of accomplishment and pride. We would like to thank our alumnus in particular, who supported us by sending us references and being there during the two days of competition. We are also thankful to the teammates for being amazingly supportive and our teacher for encouraging us to join this competition.”

Shun Tak Fraternal Association Leung Kau Kui College
Champion

“We are honoured to have received the first runner-up position at the engineering quiz competition organised by HKIE. It was a challenging yet rewarding experience. We gained knowledge in various engineering fields and appreciated the advice from professional engineers at the competition. Their guidance enhanced our understanding and inspired us to excel. This achievement motivates us to continue pursuing excellence in engineering. We are grateful to HKIE for organising this prestigious event.”

Immaculate Heart of Mary College
First runner-up

“感謝香港工程師學會舉辦是次問答比賽，讓同學獲得了寶貴的學習經驗，並促進了STEM活動的發展。這場比賽不僅增加了學生們對工程學知識的了解，還讓他們對行業有了更深入的认识，對他們未來的選科和升學之路也大有裨益。這次的經歷將鼓勵更多學生積極參與工程學習和研究，為工程領域乃至社會的發展做出更大的貢獻。”

Shun Tak Fraternal Association Yung Yau College
Second runner-up

“Our Dream City” Primary Student Design Contest

Our “Dream City” Primary School Student Design Contest, which kicked off in November 2023, aimed to enhance students’ interest in urban construction and engineering, foster an understanding of sustainable development, and encourage creativity and teamwork. The contest attracted 16 teams from primary schools, challenging their creativity and team spirit.

Throughout the contest, workshops were organised, and the participants had the opportunity to visit a global built environment consultancy firm. These activities nurtured curiosity among primary students and sparked a passionate interest in the world of urban construction and engineering knowledge.

Under the guidance of engineering mentors, the participating students designed and constructed models of their envisioned “Dream City”. In the first-round competition, ten models were shortlisted and exhibited for three days during the Carnival at the West Kowloon Cultural District. The public had the opportunity to vote for their favourite models.

On 3 March 2024, the contestants presented their models, articulating their visionary ideas and showcasing not only their model-building abilities but also their potential as aspiring engineers for the future. After rounds of public voting and judging, the winners were announced. Precious Blood Primary School emerged as the winner, with St. Francis of Assisi’s Caritas School (Team 2) as the first runner-up and Chai Wan Kok Catholic Primary School (Team 1) as the second runner-up.

The students have showcased remarkable creativity in their designs, with many embracing the themes of green living and sustainable development. They proposed innovative solutions to minimise resource waste and environmental pollution, considering aspects such as spatial planning, transportation networks, smart cities, and waste management.

Moreover, teams have demonstrated their commitment to environmental protection by utilising recyclable or biodegradable materials, including beverage cartons, sticks, plastic bottles, newspapers, and aluminum cans in their artworks. They have also integrated technologies like 3D printing, Micro:bit controlled sensors, LED light sources, and magnetic levitation devices, highlighting their potential and resourcefulness.



(L to R) HKIE Senior Vice President Ir Eric MA Siu-cheung; Deputy Secretary for Environment and Ecology of the Environment and Ecology Bureau Mr WONG Chuen-fai, JP; HKIE President Ir Dr Barry LEE Chi-hong; Senior Curriculum Development Office (Science) of the Education Bureau Dr CHENG Siu-lin, Sophia; and HKIE Chief Executive and Secretary Ir Prof Alfred SIT Wing-hang



Champion: Precious Blood Primary School



First runner-up: St. Francis of Assisi’s Caritas School (Team 2)



Second runner-up: Chai Wan Kok Catholic Primary School (Team 1)

Voices of Achievement

“在宣布比賽結果前，我非常緊張，獲知得到冠軍那一刻，我們全都歡呼起來了，感覺這就像夢一般，我們激動得跳起來。我覺得我一直以來為這個比賽付出的努力都沒有白費。我很榮幸能參加這次比賽，也很感謝組員之間能互相配合，並得到工程師及老師的幫助和鼓勵，我還很感謝所有欣賞我們作品的人能投我們一票。看着我們齊心合力所完成的作品，不禁想起參加這段比賽的日子既辛苦又忙碌，但卻帶給我難忘的時光。這段快樂又深刻的時光眨眼間就過了。這次經歷讓我了解到以人為本的重要性。充分體會到團隊精神，明白工程師的工作，也學會了更多環保的理念及設計。”

寶血小學學生 文映彤
冠軍作品：《環保之城》

“十分感謝主辦單位香港工程師學會、聖方濟愛德小學王校長、全港市民投票支持，以及香港工程師學會舉辦這個對小學生別具意義的比賽及一系列的活動。我們老師及學生均對工程深感興趣，亦對深水埗這個地方充滿感情。深水埗是我們的家，所以我們帶着熱情及好奇心，希望一起重新探索深水埗這個充滿傳奇及人情味的地方，發現不一樣的可能性，發掘各人心中憧憬的夢想城市，期望把精神和面貌傳承下去。”

聖方濟愛德小學 隊伍二
亞軍作品：《我們的家——深水埗》

“這次比賽中，我們獲得了季軍，這個成就對我們來說是非常重要的。在構思和製作我們的「夢想城市」的過程中，我們遭遇了無數的挫折，但我們毫不氣餒，堅持不懈地克服每一個困難。然而，最令我們引以為豪的不僅僅是我們的努力，更是我們之間的卓越合作和團隊精神。

比賽經歷對我來說是一次珍貴的成長機會，它不僅讓我學到了大量的知識和智慧，還讓我明白了許多道理。在比賽前，我們充滿著緊張和害怕，因為眼見其他隊伍的優秀作品和美麗設計，我的心跳聲都能聽到「咚咚」地跳動。然而，我們並沒有被這些壓力打倒，而是堅定地迎接挑戰。

在我們的演講中，雖然可能出現了一些小錯誤，但我們沒有停下來，勇敢地繼續表達我們的想法。此外，我們選擇以廣為人知的「多啦A夢」故事作為介紹我們的「夢想城市」，這一決策使我們在眾多參賽者中脫穎而出。

最後，評判對我們說了一句話，這句話深深地刻在我的腦海中：“其實建築師就是多啦A夢，大家都是把『沒有變成有』。”這句話將永遠印在我們的心裡。它讓我深深明白夢想的力量，激發了我對建築和創造的熱情。

這次比賽對我來說是一個寶貴的經驗，我們不僅取得了季軍，更重要的是我們成長了。它讓我們深信只要我們堅持追求夢想，克服困難，我們就能實現自己的目標。我對這次比賽的成果感到無比自豪和滿足。”

柴灣角天主教小學 隊伍一 5C 鄭凱琳
季軍作品：《無污染綠色城市》

Guangdong-Hong Kong-Macao Greater Bay Area Tertiary Institution Innovation Project Invitational Competition

The Competition aimed to foster collaboration, knowledge exchange and innovation among engineering institutions in the Greater Bay Area. It brought together 100 brightest minds from engineering institutions in the area to showcase their talents. Ten joint teams were formed to demonstrate their innovative prowess by creating robotic vehicles that navigated bridges and obstacles, constructed intricate sandcastles, and delicately picked up flags. Their remarkable achievements exemplified the boundless potential of engineering.

After hours of intense competition, the joint team comprising of the Hong Kong Metropolitan University (香港都會大學) and Shenzhen Institute of Technology (深圳技術學院) emerged as the overall champions.



A group photo of guests and the participating teams.



Group photo: Ir Ricky Lau Chun kit, JP, Permanent Secretary for Development (Works) (Middle), Ir Pang Yiu Hung, JP, Director of Electrical & Mechanical Services/Gen Mgr, EMSTF, Electrical & Mechanical Services Department (2nd left), Ir Dr Barry Lee Chi Hong, President of the HKIE (3rd left), Ir Prof Louis Lock Fat Shing, Chairman of the Organising Committee of the Greater Bay Area Innovation Competition (3rd right), Ir Prof C C Chan, Academician, Chinese Academy of Engineering & Fellow, Royal Academy of Engineering U.K. (2nd right), Dr George Lau, Principal of Youth College (Kwai Chung, Pokfulam) and Deputy Academic Director (Engineering), Vocational Training Council (1st left), and Ir Prof Alfred Sit Wing Hang, Chief Executive and Secretary of the HKIE (1st right).



Remarkable achievements by the engineering talents from Hong Kong, and the Mainland





The panel of judges of the competition (L to R): Mr FONG Kai-shing; Mr Wong Ka-fai, Eddie; Ir Prof Louis LOCK; Ir Dr Barry LEE Chi-hong; Ir Vincent CHOW Hau-keung, JP; Ms TSO Mei-shan; and Ir KAN Jun

Voices of Achievement

“粵港澳大灣區高校創新工程邀請賽既刺激又興奮，期間亦遇到一些意想不到的事情，例如比賽的前一天機械車底板壞了，考驗了我們的臨場應變能力。幸好我們找到解決方法，克服了這個困難。我們能夠與深圳技師學院的同學們一起相處兩天感到很開心，與他們建立了深厚的友誼，彼此亦交換了聯絡方法，以便日後進行學術上的交流。透過是次交流活動，我們學到了很多東西，包括橋樑、機械車的構思和應變能力等，這對我們未來職場發展裨益不少。亦感謝香港工程師學會舉辦是次粵港澳大灣區高校創新工程邀請賽，讓我們加深對工程領域的了解和興趣，希望將來能為粵港澳大灣區及香港工程界作出貢獻。”

香港都會大學

“我們能夠參加粵港澳大灣區高校創新工程邀請賽感到開心。由深圳來香港參加是次交流活動的兩天中，結識了許多朋友，確實獲益良多。另外，構思機械車和沙堡製作的過程中，我們亦學到了團隊合作和團結的重要性。最後，我們獲得了獎項，感謝團隊的付出。”

深圳技師學院



Champion: The Hong Kong Metropolitan University and Shenzhen Institute of Technology Joint Team

Career Fairs

In our commitment to supporting and guiding tertiary students interested in pursuing a career in engineering, the HKIE has co-organised career fairs at various educational institutions. These highly valuable fairs provide students with a unique opportunity to explore a wide range of career options and receive invaluable advice from industry experts. Our aim is to empower students to make informed career choices by matching them with relevant career paths that align with their interests, skills, and qualifications.

The Hong Kong University of Science and Technology	29 February 2024
Hong Kong Institute of Vocational Education (Tsing Yi Campus)	4 March 2024
School of Professional Education and Executive Development, The Hong Kong Polytechnic University	5 March 2024
City University of Hong Kong	8 March 2024
The Chinese University of Hong Kong	12 - 13 March 2024
The Hong Kong Polytechnic University	19 March 2024
The University of Hong Kong	21 March 2024



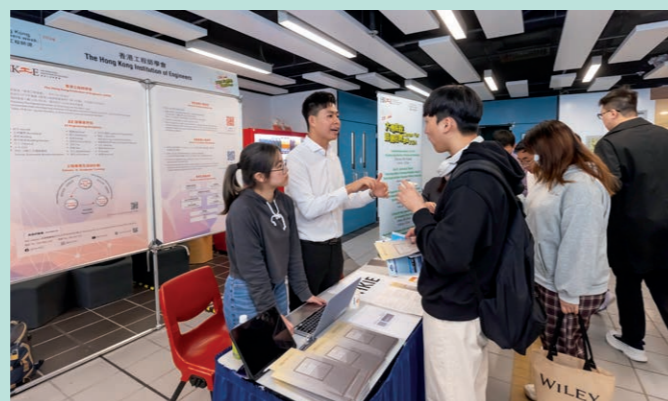
Ir Tony ZA, Co-Chairman of the Career Fairs Organising Committee (Centre); Dr Daniel YAN, Academic Director of VTC Engineering Discipline, Hong Kong Institute of Vocational Education & Technological and Higher Education Institute of Hong Kong (R); and Ir Timothy K F CHAN, representative from THEi (L)



Ir Keith YUE, Co-Chairman of the Career Fairs Organising Committee (4th left) and other guests at The Hong Kong University of Science and Technology



HKIE Immediate Past President Ir Aaron BOK at the CityU Career Fair



Career Fair held at The Hong Kong University of Science and Technology



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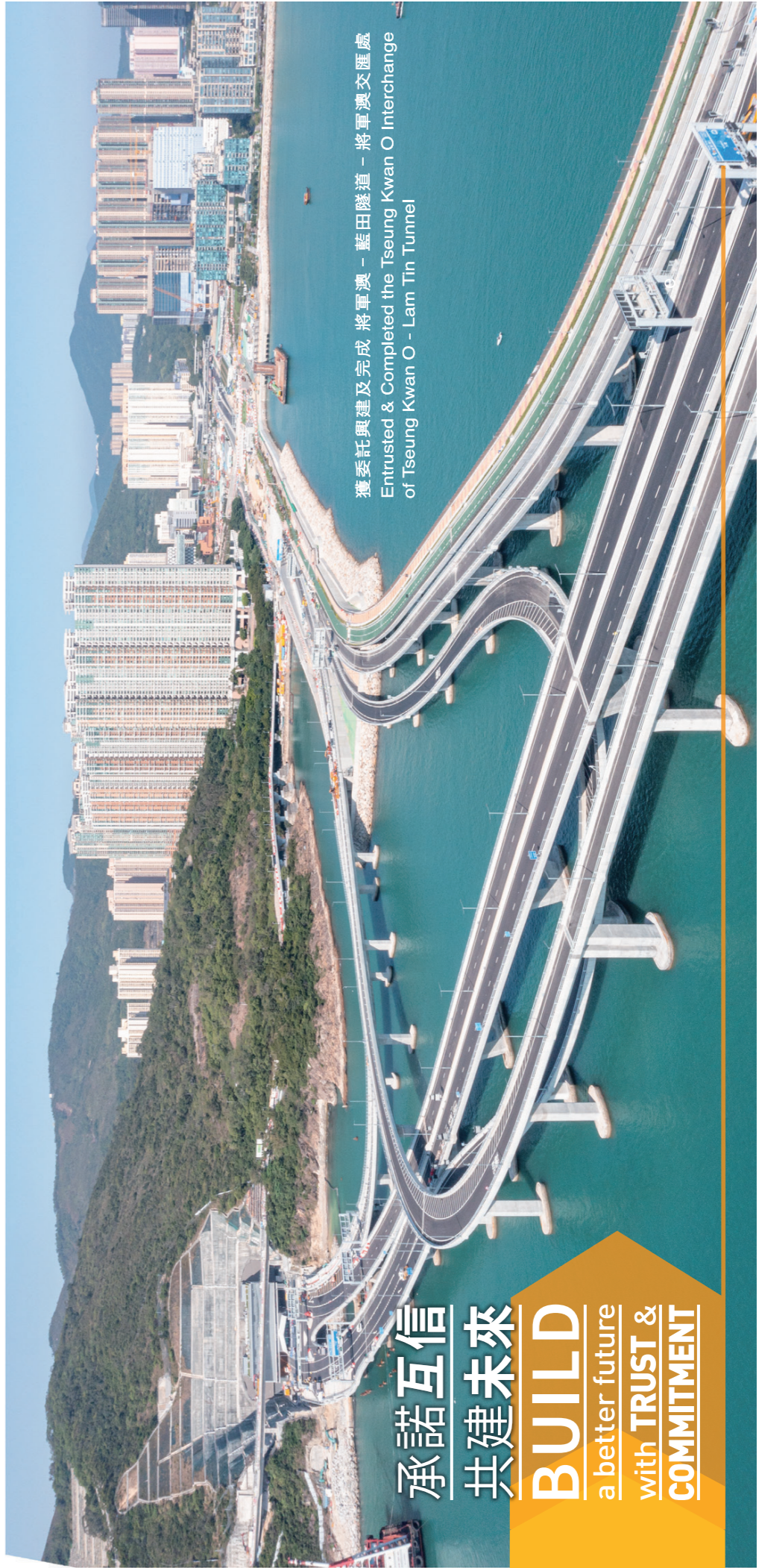
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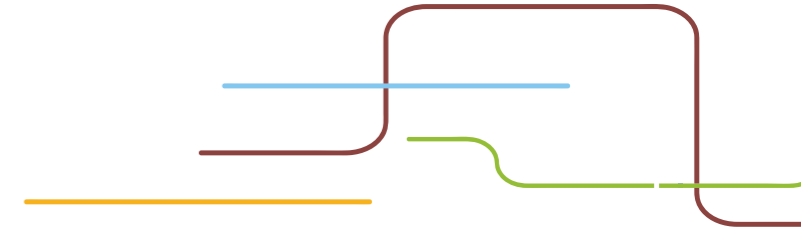
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The Hong Kong Institution of Engineers (HKIE) – previously The Engineering Society of Hong Kong - was founded in 1947. In 1975, the HKIE was incorporated under the Hong Kong Institution of Engineers Ordinance, Chapter 1105 of the Laws of Hong Kong. Today the HKIE has over 34,000 members, of which around 17,000 are Corporate Members.

The Institution aims to bring together engineers of different disciplines for their common good. The HKIE is committed to upholding the quality of membership, and sets standards for the training and admission of engineers from 22 engineering disciplines. It also has strict rules governing members' conduct and is dedicated to raising the ethical standards of professional engineers in Hong Kong. For more information about the HKIE, please visit <https://hkie.org.hk>.

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Embracing Decarbonisation

DECARBONISATION

We continue to progressively decarbonise our portfolio, promote local renewable energy development, and leverage our power expertise to support Hong Kong to achieve her 2050 carbon neutrality target.





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