

8th INTERNATIONAL CONFERENCE

Roadmap to **NET ZERO**

Date:

27-28 February 2025
(Thursday & Friday)

Language: English

Venue:

City University of Hong Kong
Wong Cheung Lo Hui Yuet Hall

5/F, Lau Ming Wai Academic Building,
83 Tat Chee Avenue, Kowloon Tong,
Kowloon, Hong Kong, China

**Registration Fee:**

Regular Rate

HK\$1,200

Members of Supporting Organisations / Students

HK\$1,100

Members of Organisers / Co-organisers

HK\$1,000

The fee covers:

- 1.5-day conference presentations
- Conference materials

CPD: Attendance e-certificates will be issued upon request.

Registration & Payment:

Registration is accepted on a first-come, first-served basis. Please register through the online system at the link: <https://bit.ly/eihk-8th-int-conf>

An acknowledgement e-mail together with payment instructions will be issued upon registration. Enrolment will be confirmed only after receipt of payment.

**Registration Deadline:**

3 February 2025
(Monday)

Enquiries:

Conference Secretariat

Tel: (852) 2967 8855

WhatsApp: (852) 9415 9644

Email: events@agchk.com



Background

The HKSAR Government announced in October 2021 the Hong Kong's Climate Action Plan 2050, setting out the vision of “Zero-carbon Emissions · Liveable City · Sustainable Development”, and outlining the strategies and targets for combating climate change and achieving carbon neutrality. In this conference we will delve into key topics such as net-zero carbon power generation technologies, green transportation technologies, waste to energy technologies, and advanced disruptive technologies for carbon net zero transition in Hong Kong by 2050. These themes are closely aligned with the goals outlined in the Hong Kong Climate Action Plan 2050.

The conference will gather heavyweight local and international speakers and provide a platform for experts, researchers, and industry professionals to share insights and advancements in various cutting-edge technologies in these areas driving the transition to a carbon-neutral future. By addressing these critical topics, the conference aims to foster collaboration and knowledge exchange to accelerate the implementation of sustainable energy solutions in Hong Kong and beyond.

The conference will create synergy with one of the days of the International Energy Week 2025 hosted by Energy Institute, which is scheduled for 27 February 2025. On this day, a panel discussion on “Transition Challenges Around the World: South Asia” will be held simultaneously in both Hong Kong and the United Kingdom via online streaming. For more details about the International Energy Week 2025, please visit the website: <https://www.ieweek.co.uk/>.

The Energy Institute Hong Kong Branch looks forward to welcoming participants to this important event, where the collective expertise and experience will contribute to driving forward the global energy transition towards a carbon-neutral future.

Objectives

- To update knowledge on recent advancement in technological development, safety precaution and infrastructural need for generation, distribution, storage and utilisation of hydrogen and clean energy in order to achieve net zero;
- To promote academic and professional exchange in net zero policies, technology development research, applications, future challenges and developments.

Target Audiences

All are welcome, especially:

- Energy professionals
- Engineers
- Consultants
- Government officials
- Policymakers
- Scientists
- Researchers
- Academics

PROGRAMME

27 February 2025 (Day 1)



13:30 – 14:00 **Registration**

14:00 – 14:05 **Welcome Speech**

Prof. Freddy BOEY,
President and University Distinguished
Professor, City University of Hong Kong (TBC)

14:05 – 14:25 **Group Photo Taking**

14:25 – 14:35 **Keynote Speech**

Mr Andy BROWN, OBE, FEI, President,
Energy Institute, UK (TBC)

14:35 – 14:50 **Keynote Address**

The Hon TSE Chin Wan,
Secretary for Environment and Ecology,
HKSAR Government

14:50 – 14:55 **Gratitude Speech**

Ir Edmund LEUNG, Chairman,
Conference Steering Committee

14:55 – 15:20 **Break**

Keynote Session

**Moderator: Ir Chris CHONG, Immediate Past Chairman,
Energy Institute Hong Kong**

15:20 – 15:45 **Hydrogen Safety and Development in
Hong Kong**

Ir Eric WONG, Assistant Director/Gas and General
Legislation, Electrical and Mechanical Services
Department, HKSAR Government

15:45 – 16:10 **Accelerating Hong Kong's Energy Transition |
Opportunities and Challenges**

Mr Joseph LAW, Managing Director,
CLP Power Hong Kong Limited

16:10 – 16:35 **Developing New Energy to cope with Global
Energy Transition by Transforming a Gas Company**

Mr Peter WONG, Executive Director and Managing Director,
The Hong Kong & China Gas Company Limited

16:35 – 17:00 **Innovative Strategies for Energy Transition**

Ir Charles TSAI, Chief Executive Officer,
Power Assets Holdings Limited

17:00 – 17:35 **Panel Discussion: “Transition Challenges
Around the World: South Asia” under
International Energy Week 2025 in UK**

8:45 – 9:15 Registration

Theme: Low Carbon Generation

Session Chair: Ir Raymond FONG, Past Chairman, Energy Institute Hong Kong

9:15 – 9:40 MHI's Carbon Capture Technology

Mr Tatsuto NAGAYASU, Senior Vice President (CCUS), GX solutions, Mitsubishi Heavy Industries

9:40 – 10:05 A Distributed Energy Future for Customers

Mr Andrew BILLS, Chief Executive Officer, SA Power Networks

10:05 – 10:30 Hydrogen Production and Hydrogen Cofiring on Gas Turbines

Ir Kenny CHAN, Managing Director of Siemens Energy Limited Hong Kong and Macau

10:30 – 10:45 Q&A Session & Souvenir Presentation

10:45 – 11:10 Break

Theme: Green Transportation

Session Chair: Ir Colin CHUNG, Past Chairman, Energy Institute Hong Kong

11:10 – 11:35 Fuel Cell Heavy Vehicle Application in China

Mr Wilson LAM, Director, Multi-Franchise Division, Zung Fu Company Limited

11:35 – 12:00 Challenge and Opportunity to Decarbonize Aviation Industry

Mr Dannis KL POON, Chief Operating Officer, EcoCeres, Inc.

12:00 – 12:25 Innovating for a Greener Tomorrow: MTR's Environmental Initiatives in Rail

Mr HK CHAN, Chief of Operations Engineering Service & Innovation, MTR Corporation Limited

12:25 – 12:40 Q&A Session & Souvenir Presentation

12:40 – 14:10 Lunch break

Theme: Waste to Energy

Session Chair: Ir Prof. Dennis LEUNG, The University of Hong Kong / Past Chairman, Energy Institute Hong Kong

14:10 – 14:35 Waste to Hydrogen - Towngas Case Studies

Ir Don CHENG, Chief Operating Officer – HK Business, The Hong Kong and China Gas Company Limited

14:35 – 15:00 Innovative Approach to Green Hydrogen: Transforming Waste into Clean Energy

Ir Norman CHENG, Chief Operating Officer, Veolia Hong Kong & Macau

15:00 – 15:25 Low Carbon Methanol Production Pathways for Maritime Use

Mr Patrick COOPER, Chemical Engineer, Ove Arup & Partners Hong Kong Limited

15:25 – 15:40 Q&A Session & Souvenir Presentation

15:40 – 16:05 Break

Theme: Innovative Technologies

Session Chair: Ir Chair Prof. Michael LEUNG, City University of Hong Kong / Past Chairman, Energy Institute Hong Kong

16:05 – 16:30 China's Photovoltaic Future Development

Prof. Hui SHEN, Director (Institute for Solar Energy Systems), Sun Yat-Sen University

16:30 – 16:55 Meta-material Solutions for Sustainability

Prof. Xiaobo YIN, Professor, Mechanical Engineering and Physics, The University of Hong Kong

16:55 – 17:20 Ultra-High Temperature Steam Plasma Technology for Hydrogen Generation from Biomass Waste

Mr YU Long Sang Nelson, COO/CTO of Flamingo, Pyrolysis Technology Limited

17:20 – 17:35 Q&A Session & Souvenir Presentation

17:35 – 17:40 Closing Speech by Ir Dr HF CHAN, Convenor, Conference Organising Committee

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Co-organisers:

AEE Hong Kong Chapter
美國能源工程師學會香港分會

HKAEE 香港能源工程師學會
Hong Kong Association of Energy Engineers

CityU
香港城市大學
City University of Hong Kong

ICE Hong Kong
Institute for Clean Energy
香港清潔能源研究院

HKIE THE HONG KONG
INSTITUTION OF ENGINEERS
香港工程師學會
Gas & Energy Division
燃氣及能源分部

THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

Department of Building Environment and Energy Engineering
建築環境及能源工程學系

IGEM
Institution of Gas Engineers & Managers
For Gas Check Section

Institution of MECHANICAL ENGINEERS
Hong Kong Branch

Collaborator:

INTERNATIONAL ENERGY WEEK

Supporting Organisations:

環境保護署
Environmental Protection Department

機電工程署
EMSD



ASHRAE Hong Kong Chapter

BEAM
建築環保評估協會

The British Chamber of Commerce in Hong Kong
香港英商會

BUSINESS ENVIRONMENT COUNCIL
商界環保協會

BSOMES
Building Services Operation and Maintenance Executives Society
楼宇設施運作及維修行政人員學會

The Canadian Chamber of Commerce in Hong Kong

CIBSE 45 Hong Kong

CIWEM Chartered Institution of Water and Environmental Management
Hong Kong Branch

ENGINEERS AUSTRALIA
Hong Kong Chapter

GREEN COUNCIL
環保促進會

HkCCF
Hong Kong Climate Change Forum

HKFEMC
香港機電工程師學會

HKGBC
香港綠色建築議會

HKGSA
香港綠色策略聯盟
Hong Kong Green Strategy Alliance

HKIQEP
香港環專會

香港公路學會
Hong Kong Institution of Highways and Transportation

hkpc
生產力局

Department of MECHANICAL ENGINEERING
The University of Hong Kong

HKIE THE HONG KONG INSTITUTE OF ENGINEERS
Building Services Division
建築服務部

HKIE THE HONG KONG INSTITUTE OF ENGINEERS
Environmental Division
環境部

HKIE THE HONG KONG INSTITUTE OF ENGINEERS
Nuclear Division
核能部

IET The Institution of Engineering and Technology

IFMA Hong Kong Chapter
International Fluid Management Association

soe
engineering success
soe hong kong region
營運工程師學會 香港分會

Conference Steering Committee

Chairman:

Ir Edmund KH LEUNG, Past Chairman, Energy Advisory Committee, HKSAR Government / Honorary Fellow, Energy Institute

Members:

- Ir Dr HF CHAN, Cinotech Consultants Limited / Honorary Fellow, Energy Institute
- Ir Don CHENG, The Hong Kong and China Gas Company Limited
- Ir Chris CHONG, Immediate Past Chairman, Energy Institute Hong Kong
- Ir Dr Jacob KAM, MTR Corporation Limited
- Mr Joseph LAW, CLP Power Hong Kong Limited
- Ir Prof. Dennis LEUNG, The University of Hong Kong / Past Chairman, Energy Institute Hong Kong
- Ir Chair Prof. Michael LEUNG, City University of Hong Kong / Past Chairman, Energy Institute Hong Kong
- Ir Prof. Vivien LU, The Hong Kong Polytechnic University / Chairperson, Energy Institute Hong Kong
- Ir Dr Otto POON, ATAL Engineering Group / Honorary Fellow, Energy Institute
- Ir Charles TSAI, Power Assets Holdings Limited

Conference Organising Committee

Convenor:

Ir Dr HF CHAN, BBS, Cinotech Consultants Limited / Honorary Fellow, Energy Institute

Co-convenor:

Ir Chris CHONG, Immediate Past Chairman, Energy Institute Hong Kong

Members:

- Ir Gary CHIANG, CLP Power Hong Kong Limited / Past Chairman, Energy Institute Hong Kong
- Ir Colin CHUNG, Past Chairman, Energy Institute Hong Kong
- Ir Raymond FONG, Past Chairman, Energy Institute Hong Kong
- Ir Travis KAN, Schneider Electric (Hong Kong) Limited / Vice Chairman, Energy Institute Hong Kong
- Ir Jeffrey KWOK, Power Assets Holdings Limited
- Ir Polax LAM, Treasurer, Energy Institute Hong Kong
- Ir KF LEE, The Hong Kong & China Gas Company Limited
- Ir Prof. Dennis LEUNG, The University of Hong Kong / Past Chairman, Energy Institute Hong Kong
- Ir Chair Prof. Michael LEUNG, City University of Hong Kong / Past Chairman, Energy Institute Hong Kong
- Ir Prof. Vivien LU, The Hong Kong Polytechnic University / Chairman, Energy Institute Hong Kong
- Ir Zico SIT, Chairman, Young Professional Network, Energy Institute Hong Kong