

Organisers:



School of Energy and Environment
香港城市大學
City University of Hong Kong



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

7th INTERNATIONAL CONFERENCE HYDROGEN AND CLEAN ENERGY TO NET ZERO

Date:

1-2 December 2022
(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
- Tea breaks & lunch (if situation allows)

CPD: Attendance 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-7th-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:

14 November 2022
(Monday)

Enquiries:

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Background

The Sixth IPCC Assessment Report “The Physical Science Base of Climate Change” released on 9th August 2021 warns that it is only possible to avoid global warming of 1.5°C or 2°C if massive and immediate cut in greenhouse gas emissions is made. In this part of the world China promises to strive to achieve carbon peak by 2030 and carbon neutrality by 2060, while Hong Kong being the foremost internationalised city of China also vows to achieve carbon neutrality by 2050.

To achieve these challenging goals, researchers and technical experts are exploring various zero carbon energy resources, among which hydrogen utilisation is one of the promising alternatives. Yet, there are many challenges ahead in the policies and technological development, safety precaution and infrastructure need for generation, distribution, storage and utilisation of hydrogen.

This international conference will bring together policy makers, scientists, researchers, academia, engineers, green groups and other stakeholders for knowledge and experience sharing of their recent advancement in these areas. Policy makers, in particular, are invited to chart the policy directives in carbon neutrality in the region as well.

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 Audience

Energy professionals, engineers, consultants, government officials, policymakers, scientists, researchers and academics.

Programme

1 December 2022 (Day 1)

7th INTERNATIONAL CONFERENCE HYDROGEN AND CLEAN ENERGY TO NET ZERO

13:30 – 14:00 **Registration**

14:00 – 14:05 **Welcome Speech**

Prof. Way KUO, JP, President,
City University of Hong Kong

14:05 – 14:20 **Group Photo Taking**

14:20 – 14:45 **Keynote Speech: Global Megatrends and the Energy Transition**

President, Energy Institute, UK (TBC)

14:45 – 15:15 **Keynote Address**

The Hon TSE Chin Wan, BBS, JP, Secretary for
Environment and Ecology, Hong Kong Special
Administrative Region

15:15 – 15:20 **Gratitude Speech**

Ir Edmund LEUNG, SBS, OBE, JP, Chairman,
Conference Steering Committee, Hong Kong

15:20 – 15:50 **Tea Break**

Keynote Session

Moderator: Ir Chris CHONG, Veolia Hong Kong /
Chairman, Energy Institute Hong Kong

15:50 – 16:15 Acceleration to Net Zero – Powering a Carbon Neutral Hong Kong
Ir T K CHIANG, Managing Director, CLP Power Hong Kong Limited

16:15 – 16:40 Hydrogen Economy – The Towngas Way
Ir Simon NGO Siu Hing, Head of Engineering - H.K. Utility,
The Hong Kong and China Gas Company Limited

16:40 – 17:05 Energy Transition – from Turbulence to Resilience
Ir Bill HO, General Manager (Corporate Development),
The Hongkong Electric Company, Limited

17:05 – 17:30 Decarbonisation Strategy for Beijing to Achieve Carbon Neutral
by 2050
Mr Yong LI, Director of Zero Committee, Western Returned
Scholars Association / Expert of CCICED Chief Advisor's
Supporting Team, China Council for International Cooperation on
Environment and Development, PRC



Programme

2 December 2022 (Day 2)

7th INTERNATIONAL CONFERENCE HYDROGEN AND CLEAN ENERGY TO NET ZERO

8:30 – 9:00 Registration

Theme: Safety and Policy

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

9:00 – 9:25 Hong Kong Roadmap for Decarbonisation
Dr Kenneth KM LEUNG, Assistant Director (Air Policy), Environmental Protection Department, Hong Kong SAR Government

9:25 – 9:50 Hydrogen Safety and Regulations, Codes and Standards
Dr Jinyang ZHENG, Academician, Chinese Academy of Engineering / President, IAHE Codes and Standards Division / Vice Chair, SAC/TC 309 Hydrogen Energy

9:50 – 10:15 Guidelines and Policies for Safety Operation of Hydrogen Refueling Stations in China
Mr FENG YU, Manager, New Cosmos Electric (Shanghai) Co., Limited

10:15 – 10:30 Q &A session & Souvenir Presentation

10:30 – 10:45 Tea Break

Theme: Production, Conversion, Transmission and Transportation

Moderator: Ir Prof. Michael LEUNG, City University of Hong Kong / Board of Directors (China Representative), International Solar Energy Society

10:45 – 11:10 Research Trend and Development of Hydrogen Power and Ammonia
Prof. XUAN Jin, Head, Department of Chemical Engineering, Loughborough University

11:10 – 11:35 Role of Gas Networks in Developing Australia's Hydrogen Industry
Mr Craig de LAINE, Chief Executive Officer, Australian Gas Infrastructure Group (AGIG)

11:35 – 12:00 The Manufacturing and Distribution of Hydrogen, Towngas' Innovative Way
Ir Stephen CHAN, General Manager - Gas Production, The Hong Kong and China Gas Company Limited

12:00 – 12:25 MTR's Journey Towards Carbon-neutral
Ir Dr Tony LEE, Operations Director, MTR Corporation

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

12:40 – 14:10 LUNCH

Theme: Storage, Utilisation and Application #1

Moderator: Ir Colin CHUNG, WSP (Asia) Limited / Past Chairman, Energy Institute Hong Kong

14:10 – 14:35 Bringing Hydrogen Home for Our Customers
Mr Mark HORSLEY, Chief Executive Officer, Northern Gas Networks

14:35 – 15:00 Stationary Fuel Cell Application in Residential and Commercial in Japan
Mr Max FUJITA, Overseas Sales and Marketing Manager, Fuel Cell, Smart Energy System Business Division, Panasonic Corporation, Electric Works Company

15:00 – 15:25 Our Efforts to Realise a Hydrogen Society
Mr Takeshi OKUTANI, Industrial Gases Dept. General Manager, Guangzhou Iwatani Trading Co. Ltd.

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

15:40 – 15:55 Tea Break

Theme: Storage, Utilisation and Application #2

Moderator: Ir Prof. Vivien LU, The Hong Kong Polytechnic University / Vice Chairman, Energy Institute Hong Kong

15:55 – 16:20 Hong Kong International Airport's Pathway to Net Zero Carbon
Mr Peter LEE, General Manager – Sustainability, Airport Authority Hong Kong

16:20 – 16:45 #MissionZero – our holistic and pragmatic zero-emission fleet transformation plan
Citybus Limited

16:45 – 17:10 Hong Kong's Transition to Green Public Transport
Mr Martin CADMAN, Deputy Operations Director (Planning and Support), The Kowloon Motor Bus Company (1933) Limited

17:10 – 17:35 From Low Carbon to No-carbon Power Generation
Mr Thomas LUI, Associate Director - Decarbonisation Architecture, CLP Power Hong Kong Limited

17:35 – 17:50 Q &A session & Souvenir Presentation

17:50 – 17:55 Closing Speech by Ir Dr HF CHAN, BBS

Subject to changes without prior notice.

Speakers outside Hong Kong might deliver their presentations online, subject to the prevailing quarantine arrangements.

7th INTERNATIONAL CONFERENCE HYDROGEN AND CLEAN ENERGY TO **NET ZERO**

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Ir Edmund KH LEUNG, SBS, OBE, JP, Past Chairman, Energy Advisory Committee, Hong Kong Special Administrative Region / Honorary Fellow, Energy Institute

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- Prof. Chak K CHAN, City University of Hong Kong
- Ir T K CHIANG, CLP Power Hong Kong Limited
- Ir Chris CHONG, Veolia Environmental Services China Limited / Chairman, Energy Institute Hong Kong
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- Ir CT WAN, The Hongkong Electric Company, Limited / Honorary Fellow, Energy Institute
- Dr WAN Yufeng, Citybus Limited
- Mr Peter WONG Wai Yee, The Hong Kong and China Gas Company Limited
- Mr Steve HUI, The Kowloon Motor Bus Company (1933) Limited

Conference Organising Committee

Convenor:

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

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- Ir KF YEE, Energy Institute Hong Kong / Immediate Past Chairman, Energy Institute Hong Kong