Organisers:







THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學

th INTERNATIONAL CONFERENCE HYDROGEN AND CLEAN ENERGY TO **EZERO**

1-2 December 2022 (Thursday & Friday)

Language: English

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:

HK\$1,200 **Regular Rate** 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.



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Registration Deadline:

14 November 2022 (Monday)

Ms April Ll

Hydrogen

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Background

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Programme

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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.

(1 December 2022 (Day 1)

th INTERNATIONAL CONFERENCE Hydrogen and clean energy to DET ZERO

13:30 - 14:00	Registration	_	
14:00 - 14:05	Welcome Speech Prof. Way KUO, JP, President, City University of Hong Kong	Keynote Session Moderator: Ir Chris CHONG, Veolia Hong Kong / Chairman, Energy Institute Hong Kong	
14:05 - 14:20	Group Photo Taking	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
14:20 – 14:45	Keynote Speech: Global Megatrends and the Energy Transition President, Energy Institute, UK (TBC)	16:15 – 16:40	Hydrogen Economy – The Towngas Way Ir Simon NGO Siu Hing, Head of Engineering - H.K. Utilities, The Hong Kong and China Gas Company Limited
14:45 – 15:15	Keynote Address The Hon TSE Chin Wan, BBS, JP, Secretary for Environment and Ecology, Hong Kong Special Administrative Region	16:40 – 17:05	Energy Transition – from Turbulence to Resilience Ir Bill HO, General Manager (Corporate Development), The Hongkong Electric Company, Limited
15:15 – 15:20	Gratitude Speech Ir Edmund LEUNG, SBS, OBE, JP, Chairman, Conference Steering Committee, Hong Kong	17:05 – 17:30	Decarbonisation Strategy for Beijing to Achieve Carbon Neutra 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
15:20 - 15:50	Tea Break		Environment and Development, PRC

Programme 2 December 2022 (Day 2)

th INTERNATIONAL CONFERENCE Hydrogen and clean energy to DET ZERO

8:30 – 9:00 Registration

	i <mark>ety and Policy</mark> Ir Prof. Dennis LEUNG, The University of Hong Kong / Past Chairman, Energy Institute Hong Kong		
9:00 - 9:25	Hong Kong Roadmap for Decarbonisation		
5100 5125	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		
	<mark>duction, Conversion, Transmission and Transportation</mark> 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	Hong Kong International Airport's Pathway to Net Zero Carbon		
	Mr Peter LEE, General Manager – Sustainability, Airport Authority Hong Kong		
12:25 – 12:40	Q &A session & Souvenir Presentation		
12:40 – 14:10	LUNCH		
	rage, Utilisation and Application #1 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	Our Efforts to Realise a Hydrogen Society		
	Mr Takeshi OKUTANI, Industrial Gases Dept. General Manager, Guangzhou Iwatani Trading Co. Ltd.		
15:00 – 15:25	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		
15:25 - 15:40	Q &A session & Souvenir Presentation		
15:40 - 15:55	Tea Break		
Theme: Sto	rage, Utilisation and Application #2 Ir Prof. Vivien LU, The Hong Kong Polytechnic University / Vice Chairman, Energy Institute Hong Kong		
	MTR's Journey Towards Carbon-neutral		
	Ir Dr Tony LEE, Operations Director, MTR Corporation		
16:20 - 16:45	Presentation topic to be confirmed		
	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.

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Conference Steering Committee

Chairman:

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

Members:

- Ir Dr HF CHAN, BBS, Cinotech Consultants Limited / Honorary Fellow, Energy Institute
- 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
- Ir Dr Jacob KAM, MTR
 Corporation
- Ir Prof. Dennis LEUNG, The University of Hong Kong / Past Chairman, Energy Institute Hong Kong

- Ir Dr Otto POON, ATAL Engineering Group / Honorary Fellow, Energy Institute
- Prof. Asif USMANI, The Hong Kong
 Polytechnic University
- 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

Members:

- Ir Joseph CHAN, Energy Institute Hong Kong / Past Chairman, Energy Institute Hong Kong
- Ir Don CHENG, The Hong Kong and China Gas Company Limited
- Ir Gary CHIANG, CLP Power Hong Kong Limited / Past Chairman, Energy Institute Hong Kong
- Ir Chris CHONG, Veolia Environmental Services China Limited / Chairman, Energy Institute Hong Kong
- Ir Colin CHUNG, WSP (Asia) Limited / Past Chairman, Energy Institute Hong Kong
- Ir Raymond FONG, Past Chairman, Energy Institute Hong Kong
- Ir Jeffrey KWOK, Power Assets Holdings Limited
- Ir Paul KWONG, Green Island Cement Company Limited / Past Chairman, Energy Institute Hong Kong

- Ir Paul LEE, Energy Institute Hong Kong / Past Chairman, Energy Institute Hong Kong
- Ir Prof. Dennis LEUNG, The University of Hong Kong / Past Chairman, Energy Institute Hong Kong
- Ir Prof. Michael LEUNG, City University of Hong Kong / Board of Directors (China Representative), International Solar Energy Society
- Ir Prof. Vivien LU, The Hong Kong Polytechnic University / Vice Chairman, Energy Institute Hong Kong
- Ir KF YEE, Energy Institute Hong Kong / Immediate Past Chairman, Energy Institute Hong Kong