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香港燃料電池及氫能學會  
HONG KONG FUEL CELL AND HYDROGEN ENERGY ASSOCIATION

energy  
institute  
Hong Kong

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

IGEM  
Institution of Gas Engineers & Managers  
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# “NEW ERA OF HYDROGEN ENERGY DEVELOPMENT” CONFERENCE 氫能發展新紀元 FINAL REPORT

**3 JUNE 2025 / 10AM-5:30PM**

**16 SEPTEMBER 2025 / 2PM-5:30PM**

**25 SEPTEMBER 2025 / 2PM-5:00PM**

Regatta Room, Royal Hong Kong Yacht Club / Zoom  
Cantonese / Putonghua / English

# ABOUT HONG KONG FUEL CELL AND HYDROGEN ENERGY ASSOCIATION

Hong Kong Fuel cell and Hydrogen Energy Association was initiated and supported by EMSD / and EEB , stands out the sole association in HK that concentrates on the low carbon development and green advancement by accelerating the deployment of hydrogen and fuel cell technologies; and promotion of hydrogen energy , encompassing the entire industry chain from hydrogen production to transport and utilisation.

More than 50 members from the Industry chain in Hong Kong and partners from other countries!

- To unite the professionals throughout the field of hydrogen energy for carrying out the research work on hydrogen energy policy, science and technology, and develop and promote the international academic exchanges and cooperation.
- To popularize and promote hydrogen energy technologies in Hong Kong, and maintain an effective platform for sharing hydrogen knowledge and generate innovation on hydrogen energy applications in Hong Kong.
- To educate the community in hydrogen energy technology and provide technical services and training of hydrogen energy management.
- To facilitate the contacts between Hong Kong, Mainland China and all countries throughout the world in the field of hydrogen energy science and technology, and promote the creation of meaningful social, economic and environmental values through the applications of hydrogen energy technologies.

## **HONORARY FELLOW**

- Ir Dr The Hon Lo Wai Kwok  
The representative of Engineering  
in Legislative Council , HKIE

## **PRESIDENT**

- Mr Steven Chan Nai Kin

## **VICE PRESIDENT**

- Mr Thomas Xiang
- Mr Eric Liu (GBA)

## **SECRETARY**

- Ms Yoyo Chan Man Ting

## **TREASURER**

- Mr Derek Man Lee Yeung

## **COMMITTEE MEMBER**

- Mr Bosco So
- Dr cheung hoi hoi
- Dr Zhao Yu Chi
- Mr Roger Law
- Mr Tso Ming Dai
- Prof. SHAO Minhua
- Mr Ricky KEAN
- Mr Jason FAN
- Mr Shawn Cheng

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## Aims

- To promote the use of adjudication, arbitration, mediation or other appropriate forms of dispute resolution mechanism in handling disputes in relation to construction and engineering;
- To promote knowledge sharing and transfer about adjudication, arbitration, mediation and other forms of dispute resolution mechanism;
- To facilitate the provision of training relevant to adjudication, arbitration, mediation and other forms of dispute resolution mechanisms;
- To accredit arbitrators and maintain the Institution's Lists of Arbitrators and Mediators;
- To propose direction and provide assistance in the development, management, accreditation, and administration on matters relating to adjudication, such as the management of the proposed body of engineering adjudication nomination under the proposed Security of Payment Legislation; and
- To advise the Institution on adjudication, arbitration, mediation as well as other matters relating to alternative dispute resolution.

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- Mr Jason FAN
- Mr Shawn Cheng

# MESSAGE FROM GUEST OF HONOUR



**Ir Dr Hon LO Wai Kwok, GBS, MH, JP**  
Member of Legislative Council  
(Functional Constituency – Engineering)

I would like to congratulate the Hong Kong Fuel Cell and Hydrogen Energy Association (HKFCHEA) for hosting the Conference with the theme “New Era of Hydrogen Energy Development”.

Safeguarding the environment, through protecting ecosystems and fighting the climate crisis, we must increase investment in renewables and clean energy. Hydrogen energy is a zero-emission fuel burned with oxygen. Hydrogen is already used around the world and many countries are planning to use it more for their future energy needs. Hydrogen is one of the cleanest fuels that can be used to produce energy, and it has the potential to be zero-carbon if the energy source used to produce it is a clean, renewable energy source, like solar or wind. Embracing the power of hydrogen is not just an environmental imperative but also an economic opportunity that can propel us towards a brighter, more sustainable tomorrow.

I am sure this Conference will serve as an excellent platform to delve deeper into the challenges and opportunities of sustainable energy practices and their crucial role in shaping our future. I sincerely wish the Conference a fruitful event and the HKFCHEA every success in its future endeavors!

A handwritten signature in black ink, appearing to read 'Lo Wai Kwok', written in a cursive style.

Ir Dr Hon LO Wai Kwok, GBS, MH, JP  
Member of Legislative Council (Functional Constituency – Engineering)

# MESSAGE FROM CHAIRMAN OF HKFCHEA



## **Ir Steven Chan Nai Kin**

Chairman of HKFCHEA

Ladies and Gentlemen, Please welcome our honorable guest Ir Dr Hon Lo Wai KwokSBS, MH, JP

It is my great honour and pleasure to be the 1st HK Fuel Cell Hydrogen Energy Association Conference on New Era of Hydrogen Energy Development towards net zero carbon target aimed to achieve as example of hydrogen economy has developed in Great Bay Area (GBA) from this year 2025-26 and application of hydrogen vehicle has recently Phenomenal in Hong Kong and majority new energy vehicle registered being legislative successful . The HKFCHEA has mission to promote the latest hydrogen energy technology aspects and accelerating the global energy transaction to net zero.

This morning event gatherings provided an incredible chance to connect and re-connect with fellow industry professionals. Congratulations on your well-deserved recognition! Your dedication and expertise continue to inspire us all, there was a valuable opportunity to learn from one another, exchange views and updates of the market. Engaging in meaningful conversations and building connections enable us to push the boundaries of our industry and drive it towards a brighter future together!

Let us continue to seize every chance to learn, to collaborate and to grow! Keep up our “growth mindset” to drive our professionalism and industry to new heights of “unity” and excellence.

Last but not least, I take this opportunity to convey my gratitude to the organizing committee, PASS sponsors and many supporting organizations and well wishes for the success of today’s event and please enjoy good memorable evening celebrations.

Thank you very much!  
Ir Steven Chan Nai Kin  
Chairman ( 2025-26)  
HKFCHEA

# ABOUT THE CONFERENCE

The HKSAR Government announced in Oct 2021 the Hong Kong 's climate action plan 20250 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 deliver into key topics such as net zero carbon green hydrogen production technologies , green transportation technologies, hydrogen Unmanned Aerial vehicles (UAV) and advanced disruptive technologies for carbon net zero transition in Hong Kong by 2050.

The conference will gather heavyweight local and international speakers and provide 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 of sustainable energy solutions in Hong kong and beyond!

The conference will create synergy with one day of the local conference 2025 hosted by HKFCHEA which is scheduled for 3 June 2025 .The HKFCHEA Hong Kong 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. The acceleration of the adoption of hydrogen as a sustainable fuel for transportation infrastructure 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.

# ABOUT THE CONFERENCE HIGHLIGHTS

## “NEW ERA OF HYDROGEN ENERGY DEVELOPMENT” CONFERENCE 氫能發展新紀元

REGATTA ROOM, ROYAL HONG KONG YACHT CLUB | 3 JUNE 2025

**11**

Invited Guests & Speakers

**11**

Discussion Topics

**41**

Onsite Participants

**74**

Online Participants

## “NEW ERA OF HYDROGEN ENERGY DEVELOPMENT” CONFERENCE 氫能發展新紀元

ONLINE CONFERENCE | 15 SEPTEMBER 2025 & 26 SEPTEMBER 2025

**6**

Invited Guests & Speakers

**6**

Discussion Topics

**5**

Invited Guests & Speakers

**5**

Discussion Topics

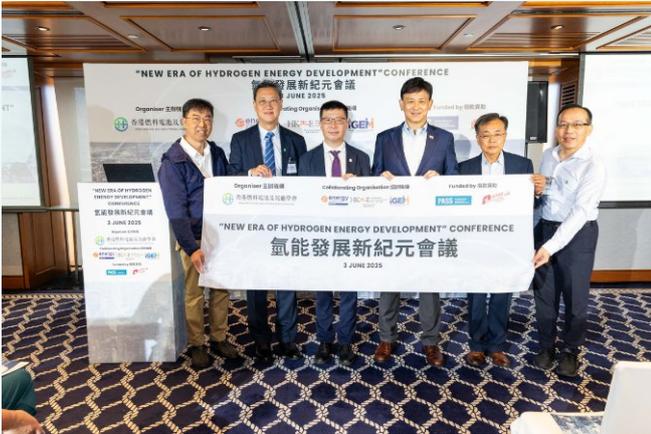
**80**

Online Participants

**169**

Online Participants

# ABOUT THE CONFERENCE HIGHLIGHTS



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# ABOUT THE CONFERENCE HIGHLIGHTS



# ABOUT THE CONFERENCE

## 3 JUNE 2025 10AM-5:30PM

TIME (HKT)	DETAILS	TIME (HKT)	DETAILS
10:00 – 10:15	<b>Opening and Welcoming Remarks</b> Mr. Steven Chan Chairman, Hong Kong Fuel Cell and Hydrogen Energy Association	14:35 – 15:00	<b>Topic 6 : Development of Hydrogen Production from Waste</b> Mr. Wang Haifeng FENERGY
10:15 – 10:30	<b>Speech by Guest of Honour</b> Ir. Dr. Hon LO Wai-Kwok SBS, MH, JP, Member of the Legislative Council (LegCo) (Engineering)	15:00– 15:25	<b>Topic 7 : Hydrogen Fuel cell Development</b> Prof. Leung Kwok Hi Michael Energy and Environment City University of Hong Kong
10:30– 10:55	<b>Topic 1: Hydrogen Unmanned Aerial Vehicle (UAV)</b> Mr. Xiaoyu Guo Department of Mechanical Engineering, City University of Hong Kong	15:25 – 15:50	<b>Topic 8 : Potential of Using Liquid Hydrogen to Power Fuel Cells</b> Charles Chan IGEM - FEDS
10:55 – 11:20	<b>Topic 2 : Development of Solid-State Hydrogen Storage Technology</b> 李紹洲 西安一九零八新能源科技有限公司	15:50 – 16:10	<b>Break</b>
	<b>Break</b>	16:10 – 16:35	<b>Topic 9 : Hydrogen Development for buildings</b> Mr. Jeremy Fouillou ARUP
11:40 – 12:05	<b>Topic 3 : Hydrogen Development from Town Gas</b> Ir. Sammy Kong The Hong Kong and China Gas Company Limited (Towngas)	16:35 – 17:00	<b>Topic 10 : PEM Water Electrolysis Technology for Green Hydrogen Production Solutions</b> Dr. Li Hui BriHyNergy (Shenzhen) Co.
12:05 – 12:30	<b>Topic 4 : Development of Hydrogen Production from Waste</b> Dr. Alex Cheung SJ EAHK IPP energy Language: English	17:00 – 17:25 (Zoom)	<b>Topic 11 : Hydrogen in the Netherlands - current status and type approval difficulties.</b> Rishwen Chander RDW Language: English
12:30 – 12:55	<b>Topic 5 : Hydrogen Storage in Hong Kong Transportation System</b> Ir. Jason fan Gas & Energy Division The Hong Kong Institution of Engineers	17:25– 17:30	<b>Q &amp; A Section</b>

# SUMMARY

## IN PRESENTATION ORDER

### 3 JUNE 2025 10AM-5:30PM

SPEAKERS	DETAILS
	<b>Opening and Welcoming Remarks</b> Mr. Steven Chan Chairman, Hong Kong Fuel Cell and Hydrogen Energy Association
	<b>Speech by Guest of Honour</b> Ir. Dr. Hon LO Wai-Kwok SBS, MH, JP, Member of the Legislative Council (LegCo) (Engineering)
	<b>Topic 1: Hydrogen Unmanned Aerial Vehicle (UAV)</b> Mr. Xiaoyu Guo Department of Mechanical Engineering, City University of Hong Kong
	<b>Topic 2 : Development of Solid-State Hydrogen Storage Technology</b> 李紹洲 西安一九零八新能源科技有限公司
	<b>Topic 3 : Hydrogen Development from Town Gas</b> Ir. Sammy Kong The Hong Kong and China Gas Company Limited (Towngas)
	<b>Topic 4 : Development of Hydrogen Production from Waste</b> Dr. Alex Cheung SJ EAHK IPP energy Language: English
	<b>Topic 5 : Hydrogen Storage in Hong Kong Transportation System</b> Ir. Jason fan Gas & Energy Division The Hong Kong Institution of Engineers

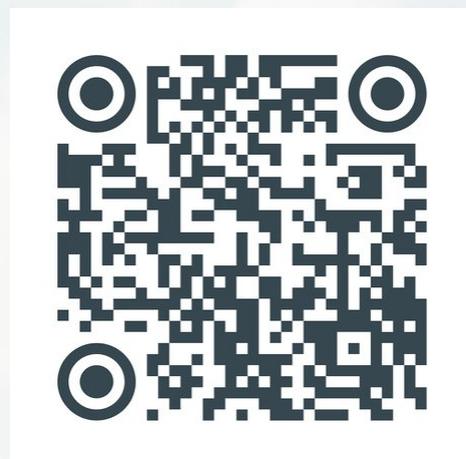


# SUMMARY

## IN PRESENTATION ORDER

### 3 JUNE 2025 10AM-5:30PM

SPEAKERS	DETAILS
	<b>Topic 6 : Development of Hydrogen Production from Waste</b> Mr. Wang Haifeng FENERGY
	<b>Topic 7 : Hydrogen Fuel cell Development</b> Prof. Leung Kwok Hi Michael Energy and Environment City University of Hong Kong
	<b>Topic 8 : Potential of Using Liquid Hydrogen to Power Fuel Cells</b> Charles Chan IGEM - FEDS
	<b>Topic 9 : Hydrogen Development for buildings</b> Mr. Jeremy Fouillou ARUP
	<b>Topic 10 : PEM Water Electrolysis Technology for Green Hydrogen Production Solutions</b> Dr. Li Hui BriHyNergy (Shenzhen) Co.
	<b>Topic 11 : Hydrogen in the Netherlands - current status and type approval difficulties.</b> Rishwen Chander RDW Language: English



# ABOUT THE CONFERENCE

16 SEPTEMBER 2025 2PM-5:30PM

25 SEPTEMBER 2025 2PM-5:00PM

TIME (HKT)	16th September 2025 Day 1	TIME (HKT)	25th September 2025 Day 2
14:30 – 14:45	<b>Speech by Guest of Honour</b> Mr. Steven Chan Chairman, Hong Kong Fuel Cell and Hydrogen Energy Association	14:30 –14:45	<b>Speech by Guest of Honour</b> Mr. Steven Chan Chairman, Hong Kong Fuel Cell and Hydrogen Energy Association
14:45 – 15:10	Mr. Xiaoyu Guo Department of Mechanical Engineering, City University of Hong Kong <b>Topic 1: Hydrogen Unmanned Aerial Vehicle (UAV)</b>	14:45 -15:10	Dr. Alex Cheung SJ EAHK IPP energy <b>Topic 1: Development of Hydrogen Production from Waste</b>
15:10 – 15:35	Charles Chan IGEM - FEDS <b>Topic 2: Potential of Using Liquid Hydrogen to Power Fuel Cell</b>	15:10– 15:35	Prof. Leung Kwok Hi Michael Energy and Environment City University of Hong Kong <b>Topic 2: Hydrogen Fuel cell Development</b>
15:35 – 15:45	<b>Break</b>		
15:45 – 16:10	Ir. Sammy Kong The Hong Kong and China Gas Company Limited (Towngas) <b>Topic 3: Hydrogen Development from Town Gas</b>	15:35 –16:00	李紹洲 西安一九零八新能源科技有限公司 <b>Topic 3: Development of Solid-State Hydrogen Storage Technology</b>
16:10 – 16:35	Ir. Jason fan Gas & Energy Division The Hong Kong Institution of Engineers <b>Topic 4: Hydrogen is the key to Carbon Neutrality</b>	16:00 –16:10	<b>Break</b>
16:35 – 17:00	Mr. Poles lam Lianhe Green Development Limited <b>Topic 5: Hydrogen and Transition Finance: Capital Strategies for Decarbonising Hard-to-Abate Sectors</b>	16:10 –16:35	Mr. Jeremy Fouillou ARUP <b>Topic 4: Hydrogen Development for buildings</b>
17:00 – 17:25	Dr. Li Hui BriHyNergy (Shenzhen) Co. <b>Topic 6: PEM Water Electrolysis Technology for Green Hydrogen Production Solutions</b>	16:35 –17:00	Ir. Kenny So CityBus Limited <b>Topic 5: Liquid Hydrogen as Fuel in Transportation</b>

# SUMMARY

## IN PRESENTATION ORDER

### 16 SEPTEMBER 2025 2PM-5:30PM

SPEAKERS		16th September 2025 Day 1
	<b>Speech by Guest of Honour</b> Mr. Steven Chan Chairman, Hong Kong Fuel Cell and Hydrogen Energy Association	
	Mr. Xiaoyu Guo Department of Mechanical Engineering, City University of Hong Kong <b>Topic 1: Hydrogen Unmanned Aerial Vehicle (UAV)</b>	
	Charles Chan IGEM - FEDS <b>Topic 2: Potential of Using Liquid Hydrogen to Power Fuel Cell</b>	
	Ir. Sammy Kong The Hong Kong and China Gas Company Limited (Towngas) <b>Topic 3: Hydrogen Development from Town Gas</b>	
	Ir. Jason fan Gas & Energy Division The Hong Kong Institution of Engineers <b>Topic 4: Hydrogen is the key to Carbon Neutrality</b>	
	Mr. Poles lam Lianhe Green Development Limited <b>Topic 5: Hydrogen and Transition Finance: Capital Strategies for Decarbonising Hard-to-Abate Sectors</b>	
	Dr. Li Hui BriHyNergy (Shenzhen) Co. <b>Topic 6: PEM Water Electrolysis Technology for Green Hydrogen Production Solutions</b>	



# SUMMARY

## IN PRESENTATION ORDER

### 25 SEPTEMBER 2025 2PM-5:00PM

SPEAKERS		25th September 2025 Day 2
	<b>Speech by Guest of Honour</b> Mr. Steven Chan Chairman, Hong Kong Fuel Cell and Hydrogen Energy Association	
	Dr. Alex Cheung SJ EAHK IPP energy <b>Topic 1: Development of Hydrogen Production from Waste</b>	
	Prof. Leung Kwok Hi Michael Energy and Environment City University of Hong Kong <b>Topic 2: Hydrogen Fuel cell Development</b>	
	李紹洲 西安一九零八新能源科技有限公司 <b>Topic 3: Development of Solid-State Hydrogen Storage Technology</b>	
	Mr. Jeremy Fouillou ARUP <b>Topic 4: Hydrogen Development for buildings</b>	
	Ir. Kenny So CityBus Limited <b>Topic 5: Liquid Hydrogen as Fuel in Transportation</b>	





# 香港燃料電池及氫能學會

HONG KONG FUEL CELL AND HYDROGEN ENERGY ASSOCIATION

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