

Connecting the Dots: HFCAS's Role in Singapore's Hydrogen Ecosystem

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About HFCAS

Background

- The Hydrogen and Fuel Cell Association of Singapore (HFCAS) was officially registered on 27 Nov 2019 as a Trade Association and Chambers (TAC) in Singapore.

Purpose

- HFCAS is committed to support Singapore's National Hydrogen Strategy and transition towards net zero by 2050. As a full-fledged TAC, HFCAS supports our members in providing platforms to collaborate with other associations and companies, both locally and overseas.

Key Drivers for Hydrogen & Fuel Cell Adoption to Support Decarbonisation Efforts

- # 1 Developing Standards to Support Hydrogen Application

- # 2 Preparing Our Workforce For the Future

- # 3 Creating Opportunities for Our Industry

- # 4 Raising Public Awareness

- # 5 Supporting Research and Development

- # 6 Going Global

#1 Developing Standards to Support Hydrogen Application

Absence of technical references and standards on the safe use of hydrogen to address Singapore's unique densely urbanised environment poses challenges in piloting and implementing Hydrogen related projects.



HFCAS reinforces the need to prepare the ground to support industry applications and deployment. We will drive the development of relevant codes and standards together with the industry to support pilot trials and future deployment of hydrogen related applications.

Ongoing work on Technical Reference Working Group on Hydrogen Refuelling Stations.

#2 Preparing our workforce for the future

In anticipation of a hydrogen ready economy, our workforce needs to be upskilled and prepared through Continuing Education and Training (CET) to fill up new jobs created. Courses focusing on Hydrogen use and applications, Masterclasses for professionals will be curated for the industry.



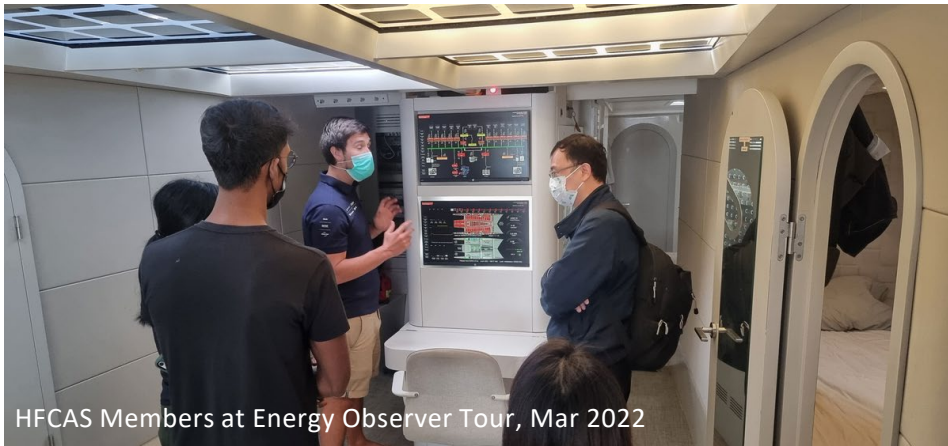
HFCAS will also focus on Pre-employment Training (PET) to develop our future workforce by acting as a conduit for industrial members and IHLs to offer internship opportunities and supporting them in global competitions.

#3 Creating opportunities for our Industry



HFCAS organises events for our industry to learn about the latest trends and applications, policy directions and more importantly, opportunities for collaboration.

Our seminars and workshops bring together international experts to speak and industry partners to showcase their latest products, so to raise Singapore's prominence in the Hydrogen space. We are also working to organize HFCAS flagship event in later stage.



HFCAS Members at Energy Observer Tour, Mar 2022

HFCAS will also support other international and regional conferences as these events would help promote Singapore's interest in the Hydrogen space.

#4 Raising Public Awareness

Early awareness programmes on the use of Hydrogen, through national exhibitions and roadshows covering the characteristics of Hydrogen, the importance to Singapore, and safe operating processes, can be curated to target the general public.

It is important to instill public confidence on the use of hydrogen to support our decarbonisation efforts.



Tokyo Hydrogen Museum Visit during Business Mission 2020

#5 Supporting Research and Development

As Green Hydrogen is still nascent, there are opportunities for our research performers to take advantage of the situation and focus on developing technologies and solutions that will facilitate the acceptance and deployment of hydrogen for the various use cases. HFCAS together with our industry players collaborate with researchers in developing the problems statements and providing opportunities for test-bedding and commercialization efforts.



#6 Going Global

With the global shift towards hydrogen as a needle moving decarbonisation strategy, it is important for Singapore to be part of this important network.

HFCAS is plugged into the international hydrogen scene through our partnership with the respective hydrogen TACs from more than **20 countries** through **Memorandum of Understandings (MOUs)**. HFCAS is also a member of the **Global Hydrogen Industrial Association Alliance (GHIAA)** which is a platform to bring all the various associations under one roof to deliberate on cross cutting issues and ways to further accelerate hydrogen deployment.

Our Business Missions provide opportunities for our enterprises to explore overseas partnerships and investment opportunities.

This will also provide greater visibility of Singapore's interest in the hydrogen landscape.





Conclusion

Singapore is actively fostering a comprehensive hydrogen ecosystem through strategic partnerships, research initiatives, and supportive policies. These efforts present substantial opportunities across various sectors, including supply chain development, technological innovation, and industrial applications, contributing to the nation's sustainable energy future.

Hydrogen.Connect 2025

Full-Day Conference

17 July 2025

*Raffles City
Convention Centre,
Singapore.*

Organised by:



Hydrogen and Fuel Cell Association of Singapore (HFCAS)

The Hydrogen and Fuel Cell Association of Singapore (HFCAS) was formed in 2019 to provide a united voice of the hydrogen industry. HFCAS serves as a platform for networking, collaboration, and knowledge sharing. We are actively participating in the development of codes and standards for safe use of hydrogen; developing training courses to equip our workforce with the necessary skillsets for hydrogen related applications; providing business matching support to our members and counterparts, all of which to support the use of hydrogen in Singapore as a major decarbonisation pathway towards net zero by 2050.



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