



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

## *Singapore* Update

44<sup>th</sup> IPHE Steering Committee Meeting  
24 – 25 November 2025  
Riyadh, Kingdom of Saudi Arabia

# Announcements / New Initiatives *Singapore*

- **Investments/Funding/Policies/Initiatives**

- Proceeding with Front-End Engineering Design (FEED) studies under the **ammonia pathfinder project for power generation and maritime bunkering**
  - Consortium led by Keppel will be entering a ~1 year FEED study before deciding whether to take the project to Final Investment Decision (FID)

- **New Research & Development, Demonstration and/or Deployment Activities**

- **Two hydrogen-ready open cycle gas turbine (OCGT) generation units**, with a total capacity of 682 MW was launched in October 2025.
- As part of the **Research, Innovation and Enterprise 2030 (RIE2030)** Strategy, Singapore is considering providing dedicated national research funding that focuses on hydrogen R&D, beyond the current approach of project-level funding. Dedicated funding to a research institute specialising in hydrogen R&D would help to build up a core pool of hydrogen research experts and allow shared use of equipment, thereby advancing hydrogen-related innovations.

- **Key Collaborations**

- Inaugural SG- Sweden Forum – panel discussions on ammonia turbines at the Singapore International Energy Week (SIEW) 2025.

# Examples of Lessons Learned and Impact *Singapore*

Program initiative, policy, regulation or mandate	Lessons Learned/Outcomes
Ammonia Pathfinder Project for Power Generation and Maritime Bunkering	<ul style="list-style-type: none"> <li>• Technological readiness of direct ammonia turbines yet to be proven at scale, resulting in longer commissioning durations</li> <li>• Low-carbon ammonia prices remain high; and ammonia-derived power is still ~3 times more expensive than fossil-fuelled power, affecting offtake. Blending of ammonia-derived electricity with other sources of electricity to make the price more palatable to power offtakers</li> <li>• Uncertainty in ammonia bunkering demand</li> </ul>

# Singapore – Profile November 2025

## Status of Deployments

- **[Blending]** Two hydrogen-ready open cycle gas turbine (OCGT) generation units, with a total capacity of 682 MW, was launched in October 2025.

## Leading Government Initiatives

- Proceeding with Front-End Engineering Design (FEED) studies under the **ammonia pathfinder project for power generation and maritime bunkering**
- Singapore's Agency for Science, Technology and Research (A\*STAR) has launched a S\$62.5m (~US\$48.0m) **low-carbon technology translational testbed (LCT3)** on Jurong Island for companies and startups to use the cost-effective, modular testbed to scale up emerging technologies for commercial development.
- As part of the RIE2030 Strategy, Singapore is considering providing dedicated national research funding that focuses on hydrogen R&D, beyond the current approach of project-level funding. Dedicated funding to a research institute specialising in hydrogen R&D would help to build up a core pool of hydrogen research experts and allow shared use of equipment, thereby advancing hydrogen-related innovations.
- Airline passengers departing from Singapore will have to pay a sustainable aviation fuel levy ranging from US\$0.77 to US\$32.10 (S\$1 – S\$41.90) per ticket from 1 Apr 2026. The levy will apply to tickets sold from 1 Apr 2026, for flights departing from Singapore on or after 1 Oct 2026

# Singapore – Profile November 2025



## Deployment Goals

- Nil

## Goals or Focus Areas

- 5 Key Thrusts
  - Experiment with advanced hydrogen technologies e.g. pathfinder project
  - Prioritizing R&D efforts
  - International cooperation
  - Long term land and infrastructure planning
  - Workforce development

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## Funding

- Nil

# Thank you



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