



**MALAYSIA  
MADANI**

**MIDA**

# HYDROGEN ECONOMY SEMINAR

**BUILDING A SUSTAINABLE ECOSYSTEM IN SHAPING  
THE FUTURE OF ENERGY, MATERIALS & INFRASTRUCTURE**

**AND THE LAUNCHING OF "MALAYSIAN ASSOCIATION OF HYDROGEN  
ENERGY" TO THE INDUSTRY PLAYERS**

**SPECIAL  
APPEARANCE**

**MR. MIKAA MERED**

Analyst, author, and lecturer on  
hydrogen geopolitics  
Green Hydrogen Ambassador of  
The International Association for  
Hydrogen Energy (IAHE)

**Keynote Address by**

**YB Liew Chin Tong**  
Deputy Minister of International  
Trade and Industry

**Welcoming Remarks by**

**YBhg. Tan Sri Dato' Seri Dr. Sulaiman Mahbob**  
Chairman, MIDA



**21**

**MARCH 2023**

**8:30 AM – 5:00 PM**

**MIDA PERDANA HALL  
MIDA SENTRAL**

[www.mida.gov.my](http://www.mida.gov.my)



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**\*LIMITED SEATS AVAILABLE  
RM500 PER PARTICIPANT**



**IN COLLABORATION WITH  
MALAYSIAN ASSOCIATION OF  
HYDROGEN ENERGY (MAHE)**



# HYDROGEN ECONOMY

SEMINAR

## SPECIAL APPEARANCE



**Mr. Mikaa Mered**

Analyst, author, and lecturer on hydrogen geopolitics  
Green Hydrogen Ambassador of The International Association for Hydrogen Energy (IAHE)



**Madam Hazami Habib**

Chief Executive Officer  
Academy of Sciences Malaysia (ASM)



**Mr. Machiel van Stralen**

Deputy Head of Economic Section  
Embassy of The Kingdom of The Netherlands

## PANELISTS



**Prof. Dato' Ir. Dr. Wan Ramli Wan Daud**

Principal Researcher Fellow  
Universiti Malaya



**Associate Prof. Dr. Ruslinda A. Rahim**

Director  
National Nanotechnology Centre  
Ministry of Science, Technology and Innovation (MOSTI)



**Ts. Shamsul Bahar Mohd Nor**

Chief Executive Officer  
Malaysian Green Technology & Climate Change Corporation (MGTC)



**Prof Dato' Ir. Dr. A Bakar Jaafar**

Professor ePerdana Centre UTM  
RFTI & Founding Director  
Ocean Thermal Energy Centre  
Universiti Teknologi Malaysia (UTM)



**Ms. Wan Hashimah Wan Salleh**

Executive Director,  
Manufacturing Development  
(Non-Resource)  
MIDA



**Mr. Robert Hardin**

Chief Executive Officer  
SEDC Energy (Sarawak)



**Mr. Adlan Ahmad**

Head Business Development & Commercial  
Gentari Hydrogen Sdn. Bhd.



**Mr. Ramani Velu**

President (SEA)  
Air Products



**Mr. Thng Hui Hong**

Business Development Director  
(SEA)  
Air Products



**Ms. Tan Shew Heng**

First Vice President, Oil, Gas, & Chemicals Sector Solutions  
UOB Group Wholesale Banking



**Dr. Aznan Ezraie Ariffin**

Chief Strategy Officer  
TNB Research Sdn. Bhd.

## PROGRAMME

8:30 am – 9:30 am	Registration & Light Refreshments
9:30 am – 10:45 am	<b>OPENING SESSION</b> <ul style="list-style-type: none"><li>• National Anthem – “Negaraku”</li><li>• Welcoming Remarks by <b>YBhg. Tan Sri Dato’ Seri Dr. Sulaiman Mahbob</b>, Chairman, Malaysian Investment Development Authority (MIDA)</li><li>• Keynote Address by <b>YB Liew Chin Tong</b>, Deputy Minister of International Trade and Industry</li><li>• Launching of the “Malaysian Association of Hydrogen Energy” to the industry players</li></ul>
10:45 am – 11:00 am	Press Conference / Coffee Break
11:00 am – 1:00 pm	<b>SESSION 1: PANEL PRESENTATION</b> <p>Scope: Overview of Hydrogen Technology; Government Policy &amp; Roadmap; Production, Logistics &amp; Supply Chain; and Talent Development.</p> <p><b>Moderator:</b> <b>Madam Hazami Habib</b>, Chief Executive Officer, Academy of Sciences Malaysia (ASM)</p> <p><b>Panelists</b></p> <p><b>Associate Prof. Dr. Ruslinda A. Rahim</b> Director, National Nanotechnology Centre, Ministry of Science, Technology and Innovation (MOSTI) Topic: Government policy &amp; roadmap</p> <p><b>Ts. Shamsul Bahar Mohd Nor</b> Chief Executive Officer, Malaysian Green Technology &amp; Climate Change Corporation (MGTC) Topic: Government’s intervention and facilitation</p> <p><b>Prof. Dato’ Ir. Dr. A Bakar Jaafar</b> Professor @Perdana Centre UTM RFTI &amp; Founding Director, UTM Ocean Thermal Energy Topic: Ocean thermal energy conversion (OTEC) into power and green hydrogen</p> <p><b>Prof. Dato’ Ir. Dr. Wan Ramli Wan Daud</b> Principal Researcher Fellow, Universiti Malaya Topic: Hydrogen, the future of energy</p> <p><b>Mr. Mikaa Mered</b> International Association for Hydrogen Energy (IAHE) Green Hydrogen Ambassador</p> <p><b>Q&amp;A SESSION</b></p>

## PROGRAMME

1:00 pm – 2:00 pm Networking Lunch

2:00 pm – 4:00 pm **SESSION 2: PANEL PRESENTATION**

Scope: Investment Opportunities & Challenges in Hydrogen Value Chain

Moderator: **Mr. Machiel van Stralen**, Deputy Head of Economic Section,  
Embassy of The Kingdom of The Netherlands

### Panelists

**Ms. Wan Hashimah Wan Salleh**

Executive Director, Manufacturing Development (Non-Resource), MIDA  
Topic: Malaysia: Your Sustainable Investment Destination

**Mr. Robert Hardin**

Chief Executive Officer, SEDC Energy (Sarawak)  
Topic: Hydrogen value chain: Sarawak experience – investment  
opportunities & challenges

**Mr. Adlan Ahmad**

Head Business Development & Commercial, Gentari Hydrogen Sdn. Bhd.  
Topic: Gentari experience in the hydrogen project and ecosystem  
development

**Mr. Ramani Velu**

President (SEA), Air Products

**Mr. Thng Hui Hong**

Business Development Director (SEA), Air Products

Topic: Hydrogen value chain: Air Products experience – investment  
opportunities & challenges

**Ms. Tan Shew Heng**

First Vice President, Oil, Gas, & Chemicals Sector Solutions, UOB Group  
Wholesale Banking

Topic: A financing solution for low-carbon hydrogen projects and ecosystem  
development

**Dr. Aznan Ezraie Ariffin**

Chief Strategy Officer, TNB Research Sdn. Bhd.

Topic: Opportunities for research in hydrogen from TNB perspective

### **Q & A SESSION**

4:00 pm – 5:00 pm Networking & Refreshments

**END OF PROGRAMME**

# HYDROGEN ECONOMY

SEMINAR

## MODERATORS PROFILE



**Madam Hazami Habib**

CEO of Academy of Sciences Malaysia (ASM), that comprise of more than 700 STI experts in Malaysia. She is the Chair of Science, Technology and Innovation Committee in APEC Policy Partnership on Science, Technology and Innovation (2017-current), the Secretary for Malaysia in IASA Council (2014-2019) and Council Member for Industry4WRD lead by Ministry of International Trade and Industry (2019-current). Among ASM Flagship Studies that she oversees are Mega Science Framework Study and Foresight Study on Malaysia 2050



**Mr. Machiel van Stralen**

Deputy Head of Economic Section for the Embassy of the Kingdom of the Netherlands in Malaysia. Previously he was Advisor Economic and Social Affairs section for Netherland's Permanent Mission to the United Nations prior to serving as a Policy Officer, Department for UN & Human Rights under Netherlands' Ministry of Foreign Affairs.

## SPECIAL APPEARANCE



**Mr. Mikaa Mered**

Green Hydrogen Ambassador for International Association for Hydrogen Energy (IAHE). He is author of "Hydrogène : enjeux économiques et géopolitiques" (Hydrogen: market and geopolitical stakes, forthcoming) and Member of the steering committee of the French Hydrogen Task Force led by MEDEF International (French Business Confederation). Concurrently, he is Adjunct lecturer on Hydrogen markets, diplomacy and geopolitics at Sciences Po in Paris, France, and head of the Environment committee and member of the Scientific Council at the French War College (École de Guerre).

## PANELISTS PROFILE



**Associate Prof. Dr. Ruslinda A. Rahim**

She is a Director of National Nanotechnology Centre under Ministry of Science, Technology and Innovation (MOSTI). She was a Malaysia's focal point for ASEAN COSTI sub-Committee on Material Science and Technology, OECD Working Party on Manufactured Nanomaterials (WPMN) and Executive Committee Member of the Asia Nano Forum (ANF). She also a Visiting Professor in Czech Technical University in Prague.



**Prof. Dato' Ir. Dr. Wan Ramli Wan Daud**

Currently serving as Principal Research Fellow, University of Malaya, he was previously UKM-Petronas Professor of Sustainable Hydrogen Energy at Universiti Kebangsaan Malaysia (December 2019- 2021) and Founding Director of the Fuel Cell Institute, Universiti Kebangsaan Malaysia (2007-2013). He won the prestigious Merdeka Award 2016 and listed as one of the World's Most Influential Scientific Minds in the top 1% of World scientists and Highly Cited Researcher in engineering seven times from 2015 - 2021 by Clarivate Analytics.

### PANELISTS PROFILE



**Ts. Shamsul Bahar Mohd Nor**

Ts. Shamsul Bahar Mohd Nor is the Chief Executive Officer of Malaysian Green Technology and Climate Change Corporation (MGTC). Prior to joining MGTC, He was the Vice President of the sustainable Business Network Association Malaysia (SustNET). He was previously the Chairman of the Green Project Management Awards, Managing Director for Syngas Renewable Energy, and the Executive Director of Saham Utama Sdn Bhd. Prior to that, he was the CEO of Polymal Corporation.



**Prof Dato' Ir. Dr. A Bakar Jaafar**

Nominated and Elected-Member of UNCLOS Commission on the Limits of the Continental Shelf (CLCS). Adviser to the National Committee on Continental Shelf, Secretariat to the National Security Council, Prime Minister's Department. Group Director of Technology, PEREMBA Group of Companies. Director & Principal Environmental Consultant, Enviro-LIFT Services Sdn Bhd. Founding Director & Research Fellow, UTM Ocean Thermal Energy Centre (UTM OTEC) & Professor, UTM Perdana.



**Ms. Wan Hashimah Wan Salleh**

Executive Director for Manufacturing Development (Non-Resource) at Malaysian Investment Development Authority (MIDA). Prior to this, she was tasked to head the Green Technology Division when there was a growing interest in the ESG adaptation and the push for the sustainable investment, by the industrial and commercial sectors. During this period the Division observed the increased on the number of green projects approved by MIDA i.e. by almost double annually. She has been serving as a MIDA officer for 28 years and has accumulative experience in industrial development and investment promotion.



**Mr. Robert Hardin**

Chief Executive Officer of SEDC Energy Sdn Bhd, a wholly owned subsidiary of Sarawak Economic Development Corporation (SEDC). SEDC Energy has been tasked to undertake the development of downstream oil & gas, as well as the new energy economy by the Sarawak government. Robert has been with SEDC Energy since its incorporation in 2019, after almost 2 decades with PETRONAS in various divisions.



**Mr. Adlan Ahmad**

Head of Business Development & Commercial at Gentari Hydrogen Sdn. Bhd. Prior to that, Mr. Adlan was Head of Strategic Alliance, Corporate Strategy in Petronas. He also served as CEO in SESKL, Executive VP of Investment in AIM and COO for Iskandar Investment Berhad. He holds an MBA from MIT and a Bachelor of Science Degree in Natural Gas Engineering from Texas A&M University at Kingsville.

## PANELISTS PROFILE



**Mr. Ramani Velu**

President of Southeast Asia at Air Products, Mr. Velu is responsible for driving the strategy and profitability of the company's Industrial Gases business in the sub-region. He started his career in Air Products in 1996 and he was posted to Taipei. Prior to that, he worked in UK and was also employed by Petronas. He holds a bachelor's degree in mechanical engineering from Imperial College London, a bachelor's degree in mathematics from the University of Leeds, and an MSc in gas engineering from the University of Salford.



**Mr. Thng Hui Hong**

Director of Large Projects Business Development in Southeast Asia at Air Products, Mr. Thng is responsible for developing new large projects aligning with the company's growth strategy in core industrial gases as well as green and blue hydrogen production. Mr. Thng joined Air Products in 2002, he was posted to US and India to expand business market. Mr. Thng holds a bachelor's degree in chemical engineering from the National University of Singapore.



**Ms. Tan Shew Heng**

First Vice President, Head of Business Insights (Oil, Gas, Chemicals & Energy Transition) Sector Solutions Group at UOB. Shew Heng joined UOB in 2017 to provide business insights to help champion the bank's wholesale banking activities to enable companies to thrive. She has more than 10 years of experience in the Oil, Gas and Chemicals sector including equity research covering Oil & Gas Majors and Asian Oil & Gas companies with a Swiss bank and a top Asian brokerage firm.



**Dr. Aznan Ezraie  
Ariffin**

Chief Strategy Officer at TNB Research Sdn Bhd, Dr. Aznan is responsible on R&D activities and technology, and commercialisation of products and services. Prior to this, he was a Project Director in the Corporate Transactions Group (CTG), Energy Ventures (EV) Division of TNB between 2015-17. He was also a Vice President of Khazanah Nasional between 2014-15, responsible on developing, implementing and overseeing investment strategy and activities, within the power sector.