



**MALAYSIA
MADANI**

MIDA

HYDROGEN ECONOMY S E M I N A R

**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



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SCAN TO REGISTER*

***LIMITED SEATS AVAILABLE
RM500 PER PARTICIPANT**



IN COLLABORATION WITH
MALAYSIAN ASSOCIATION OF
HYDROGEN ENERGY (MAHE)

HYDROGEN H2

HYDROGEN ECONOMY

S E M I N A R

SPECIAL APPEARANCE



Mr. Mikaa Mered

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

MODERATORS



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 **OPENING SESSION**

- National Anthem – “Negaraku”
- Welcoming Remarks by **YBhg. Tan Sri Dato’ Seri Dr. Sulaiman Mahbob**, Chairman, Malaysian Investment Development Authority (MIDA)
- Keynote Address by **YB Liew Chin Tong**, Deputy Minister of International Trade and Industry
- Launching of the “Malaysian Association of Hydrogen Energy” to the industry players

10:45 am – 11:00 am Press Conference / Coffee Break

11:00 am – 1:00 pm **SESSION 1: PANEL PRESENTATION**

Scope: Overview of Hydrogen Technology; Government Policy & Roadmap; Production, Logistics & Supply Chain; and Talent Development.

Moderator: **Madam Hazami Habib**, Chief Executive Officer, Academy of Sciences Malaysia (ASM)

Panelists

Associate Prof. Dr. Ruslinda A. Rahim

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

Topic: Government policy & roadmap

Ts. Shamsul Bahar Mohd Nor

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

Topic: Government’s intervention and facilitation

Prof. Dato’ Ir. Dr. A Bakar Jaafar

Professor @Perdana Centre UTM RFTI & Founding Director, UTM Ocean Thermal Energy

Topic: Ocean thermal energy conversion (OTEC) into power and green hydrogen

Prof. Dato’ Ir. Dr. Wan Ramli Wan Daud

Principal Researcher Fellow, Universiti Malaya

Topic: Hydrogen, the future of energy

Mr. Mikaa Mered

International Association for Hydrogen Energy (IAHE) Green Hydrogen Ambassador

Q&A SESSION

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

S E M I N A R

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 IIASA 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.