

ApexOne presents H2Asia 2024 for you who are interested in exploring the future of hydrogen technology and its crucial role in achieving a sustainable energy future.



HYDROGEN HORIZON: ENGINEERING EXCELLENCE AND PROJECT SYNERGY FOR A SUSTAINABLE FUTURE

22 - 23 October 2024
InterContinental Kuala Lumpur

DISTINGUISH GUEST



**YB DATUK DR.
HAZLAND ABANG
HIPNI**

Deputy Minister of Energy
and Environmental
Sustainability Sarawak

CONFERENCE PATRON



**H.E. MORTEN
PAULSEN**

Norwegian Ambassador to
Malaysia and Brunei



Norway in Malaysia
Royal Norwegian Embassy in Kuala Lumpur

KEYNOTE SPEAKER



**PRAKASH KUMAR
KARUNAKARAN**

Senior General Manager,
Technology Digital
Solutions, PETRONAS



For More Info
h2asia.net

Contact
contact@apexone.asia





JOIN US FOR AN UNPARALLELED EXPERIENCE!

H2Asia makes its comeback in 2024, reconnecting experts and stakeholders to discuss the hydrogen economy and the roadmap to broad adoption across Asia.

Proudly organised by ApexOne Asia, H2Asia 2024 conference is set to be the premier event of the year for hydrogen industry professionals, engineers, researchers, and policymakers to drive innovation and foster collaboration to accelerate the adoption of hydrogen technologies across Asia.

Key Topics

Production

- Methane pyrolysis technologies
- Scaling up electrolyzer units
- Clean hydrogen production from methane splitting
- Improving electrolyzer design and materials

Transportation & Storage

- Safety in hydrogen transport and storage
- H₂ storage tank technologies
- Liquid Organic Hydrogen Carriers
- Metal hydride materials for hydrogen storage

End Use

- Hydrogen Fuel Cell Technologies
- Hydrogen in refineries for decarbonization
- Hydrogen-fueled combined heat and power
- Hydrogen-diesel retrofit technology

General

- Hydrogen leaks and safety
- Decentralization of hydrogen production
- Economics of hydrogen energy
- Blue vs Green Hydrogen economics

Conference Highlights

- Renowned industry leaders will provide insights on hydrogen for a sustainable future.
- Innovative engineering for hydrogen production, robust infrastructure, storage challenges, hydrogen mobility, safety standards, and more.
- Engage with professionals from the oil & gas sector, engineers, academia, and research teams.
- Learn from global project developers and participate in forward-looking perspectives on the hydrogen landscape.





WELCOME MESSAGE

Dear Industry Professionals,

I am pleased to invite you to the H2Asia Conference 2024. This event provides an unparalleled opportunity to share your expertise, insights, and operational experience in the rapidly evolving field of hydrogen technology. Join us as we come together to drive innovation, foster collaboration, and shape the future of the hydrogen economy in Asia.

At H2Asia 2024, you will engage with industry leaders, researchers, innovators and practitioners who are at the forefront of hydrogen technology advancements. Through keynote speeches, panel discussions, and technical sessions, we aim to address the critical challenges and explore the immense opportunities within the hydrogen value chain.

Your participation will not only contribute to the success of the conference but also help propel the hydrogen industry towards a sustainable future.

Together, let's explore new frontiers, share groundbreaking ideas, and create a lasting impact on the global energy landscape.

I look forward to welcoming you to Kuala Lumpur in October 2024.

Best regards,



IR. SURENDRAN KANDASAMY

Head (Hydrogen),
Energy Transition Solutions,
PETRONAS



CONFERENCE CHAIRMAN



IR. SURENDRAN KANDASAMY

Head (Hydrogen),
Energy Transition Solutions,
PETRONAS

TECHNICAL COMMITTEE



BJØRN SIMONSEN

Science and Technology
Counsellor, Norwegian Embassy in
Singapore



**IR. TS. MOHD IQBAL BIN
RIDWAN**

Lead (Green Energy Technologies),
Tenaga Nasional Berhad



ROBERT JUDD

Technical Director, Hydrogen and
Low Carbon Fuels, H₂ and CCS
Team Lead Asia, DNV



CHUCK HAYES

Application Commercialization
Lead, Engineering Services,
Swagelok



**W ANAS MASYUDI B W
ABDULLAH SANI**

Senior Manager, Technology
Program, Group Technology &
Commercialization, Project
Delivery & Technology, PETRONAS.



**NUR FADILLAH BT MIOR
SHARIFUDDIN**

Chairperson, Policy Research &
Capability Building, ASCOPE



M SOPIEE B SAAIBON

Custodian (Liquefaction), Gas &
LNG, Group Technical Solution,
Project Delivery & Technology
PETRONAS



VIMAL RAO VEERASAMY

Senior Manager, Hydrogen
Workstream, Energy Transition
Solutions, PETRONAS.



OCTAVIAN PARTENIE

Technology Expert (Electrolyser)
Gentari Hydrogen, Project Design,
Execution & Technology, GENTARI



ZAHIRUDDIN MOHAMED

Senior Manager, Hydrogen
Workstream, Energy Transition
Solutions, PETRONAS.



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DAY 1: LESSONS FROM HYDROGEN VALUE CHAIN – CHALLENGES AND SOLUTIONS

08:30 - 09:00 Registration and Welcome Coffee

09:00 - 09:05 Safety Briefing by InterContinental Hotel

09:05 - 09:10 Welcome Presentation by Conference Chairman

Surendran Kandasamy, Head (Hydrogen), Energy Transition Solutions, PETRONAS

09:10 - 09:20 Opening Speech by Conference Patron

H.E. Morten Paulsen, Norwegian Ambassador to Malaysia & Brunei, Royal Norwegian Embassy in Kuala Lumpur

09:20 - 09:40 Special Address by Distinguish Guest

YB Datuk Dr.Haji Hazland Bin Abang Hipni, Honourable Deputy Minister of Energy & Environmental Sustainability, Sarawak

09:40 - 09:55 Keynote Address

Prakash Kumar Karunakaran, Senior General Manager, Technology Digital Solutions, PETRONAS

09:55 - 10:00 ApexOne Asia: Connecting People, Technology, and Hydrogen Innovation

10:00 - 10:30 Session 1: Capability Challenges for Hydrogen as a Sustainable Future

Puan Nur Fadillah Bt Mior Sharifuddin, Chairperson, Policy Research & Capability Building, ASCOPE

Hydrogen Experiential Learning Findings from South Korea

Nawar Bt M Arif, Manager, Project, Group Technology Capability Management, Project Delivery & Technology, PETRONAS

10:30 - 11:00 Networking Break

11:00 - 12:00 Session 2: Electrolyzer Imperatives (SOEC)

Moderator: M Sopiee B Saaibon, Custodian (Liquefaction), Gas & LNG, Group Technical Solution, Project Delivery & Technology, PETRONAS

Presenters: Jon Harman, Technology Delivery Director, Ceres; Vinay Avasthi, Licensing Manager, Topsoe; James Gombas, Sales Director, Hydrogen Applications, FuelCell Energy

12:00 - 12:15 Session 3: Industry Presentation: Market Update

Nigel Rambhujun, Analyst, Hydrogen Research, Rystad Energy

12:15 - 13:30 Lunch Break & Networking

13:30 - 14:45 Session 4: Methane Pyrolysis

Moderator: Octavian Partenie, Technology Expert (Electrolyser), Gentari Hydrogen, Project Design, Execution & Technology, GENTARI

Presenters: Chris Reid, Chief Executive Officer, Ekona Power Inc; Kaisa Nikulainen, CEO, ROTOBOOST; Luc Kox, Chief Commercial Officer, Hazer Group Limited; Matti Malkamäki, Founder and Chairman of the Board, Hycamite; Terje Hauan, Chief Technology Officer, SEID

14:45 - 15:00 Session 5: Validating Carbon Intensity

Ir. Dr. Mohammad Nurizat bin Rahman, Senior Consultant Decarbonisation, Energy Markets and Strategy, DNV

15:00 - 16:00 Session 6: Innovations in Hydrogen Storage and Distribution/Mobility Challenges

Moderator: W Anas Masyudi B W Abdullah Sani, Senior Manager, Technology Program, Group Technology & Commercialization, Project Delivery & Technology, PETRONAS

Panellist: Professor Jianxin Zou, Shanghai Jiao Tong University (Supported by Hydrexia); Vishal Pandey, Head of BD & Sales, South East Asia, Linde Engineering; Yatin Premchand, Managing Director, Global Advisory, Tucker Smith, Director of Business Operations, HyPerComp Engineering

16:00 - 16:15 Session 7: Hydrogen Derivatives - Advancing a Sustainable Energy Future: Ammonia as a Hydrogen Carrier

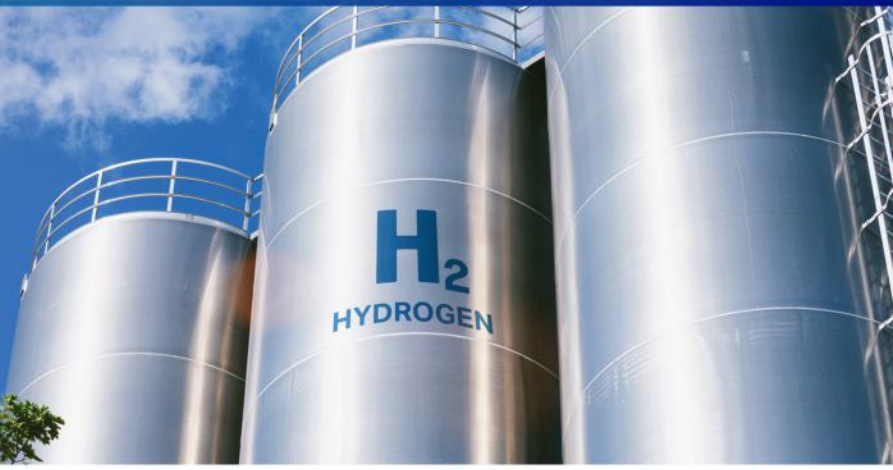
Richard Foong, Managing Consultant, NexantECA

16:15 Networking Break

18:00 - 20:00 Welcome Dinner and Networking Event

Hosted by H.E. Morten Paulsen, Norwegian Ambassador to Malaysia & Brunei, Royal Norwegian Embassy in Kuala Lumpur

Note: The agenda is subjected to change and alterations.



DAY 2: ACCELERATING THE ADOPTION OF HYDROGEN TECHNOLOGIES & ENGINEERING

08:30 - 09:00 Morning Coffee and Networking

09:00 - 09:20 Session 8: Safety

*Nick Barilo, Executive Director of the Center for Hydrogen Safety, **AICHE - American Institute of Chemical Engineers**; Nathan Lott, Global Accounts Manager, **AICHE - American Institute of Chemical Engineers***

09:20 - 09:35 Session 9: Safety Standards and Regulatory Challenges in Hydrogen Handling

*Speaker: Danillo Oliveira Marques, Senior Consultant / Project Manager - Risk Management and Hydrogen Advisory - Singapore / South East Asia, **DNV***

09:35 - 09:50 Session 10: Air Liquide's Trailblazer and NormandHy Developments (ELY > 200 MW)

*Farouk Nor, Regional Sales Manager, **Air Liquide***

09:50 - 10:20 Networking Break

10:30 - 12:00 Session 11: Compression Technologies

*Moderator: Octavian Partenie, Technology Expert (Electrolyser), Gentari Hydrogen, Project Design, Execution & Technology, **GENTARI***

*Presenters: Nicolas Ng, Hydrogen Project Solutions Leader, **Baker Hughes**; Prithvi Mallal, Product Marketing Manager - Oil Free Air (Malaysia & Singapore), **Atlas Copco**; Elizabeth Loi, Senior Bid Manager, **Siemens Energy**; Euan Tan, Senior Manager, **MAN Energy Solutions***

12:00 - 13:30 Lunch Break & Networking

13:30 - 14:30 Session 12: Sharing on Fuel Cell Applications

*Moderator: Ir. Ts. Mohd Iqbal Bin Ridwan, Lead (Green Energy Technologies), **Tenaga Nasional Berhad***

*Speakers from James Gombas, Sales Director, Hydrogen Applications, **FuelCell Energy**; Jon Harman, Technology Delivery Director, **Ceres**; Prakash Logan, Business Development Manager, **Essem Group***

14:30 - 15:30 Session 13: Digital Solutions/Modeling/Simulation

*Moderator: M Feizal B M Ghazali, Custodian, GTA I&C, **PETRONAS***

*Panellist: Ujval Bhatt, Decarbonization Lead, **KBC A Yokogawa Company**; Frederic Thielland, Business Development Manager - Hydrogen Market - APAC & Global Account, **Siemens Energy**; Elvin John, Sr. BDM & Solution Consultant, Senior Bid Manager, **Emerson Automation Solutions***

15:30 - 15:45 Session 14: Introduction to Schneider Electric Digital Solution for Green Hydrogen

*Daren Gong, East Asia One Software Leader and Solution Architect, **Schneider Electric***

15:45 - 16:00 Closing Remarks and Future Directions by Conference Chairman

*Surendran Kandasamy, Head (Hydrogen), Energy Transition Solutions, **PETRONAS***

16:00 Networking Break

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DON'T MISS THIS OPPORTUNITY TO BE PART OF THE HYDROGEN REVOLUTION!

Engage with industry professionals, attend thought-provoking presentations, and explore cutting-edge technologies shaping the future of hydrogen across Asia.



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Secure your spot at the H2ASIA 2024 Conference at a discounted rate. **Get USD 200 OFF till 15 September 2024.** Register now and take advantage of our Early Bird Pass!

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