ASEAN GREEN HYDROGEN CONFERENCE 2023

Post -Show Report

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Event Overview

This year, RoomOfLeaders is proudly taking initiative to organise the ASEAN GREEN HYDROGEN CONFERENCE 2023 in Kuala Lumpur, Malaysia with the main theme 'Stimulating Regional's Green Hydrogen Economy.

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This private and exclusive conference will act as a regional roadmap and aim as the catalyst for the regional's green hydrogen developments, assisting governments, leading energy companies, academics and service providers within the Hydrogen domain across South East Asian countries. Among the conference highlights for this edition including Green Hydrogen Policy and Regulations, Green Hydrogen Ecosystem & Value Chain, Technologies, Research and Developments and Green Hydrogen Financing.

The must-attend event will provide the industry with an opportunity to the hydrogen key players, investors and regulators what is needed to stimulate the Green Hydrogen economy with one voice. With such a complex supply chain and many moving parts, it is imperative that the industry meets, network, exchange ideas, transfer technology as well to regularly track the progress and development of Hydrogen projects in the region.

MAIN THEME

STIMULATING REGIONAL'S GREEN HYDROGEN ECONOMY

- Green Hydrogen Financing
- Green Hydrogen Value Chain & Ecosystem
- Green Hydrogen Policy & Regulation
- Technologies, Research & Development

With ever-increasing energy demand and increasing pollution, countries in ASEAN region needs to find alternative energy sources that are environmentally friendly to replace fossil fuels. A combination of various factors such as limited fossil fuels, negative environmental impacts, utilization of hydrocarbon resources, rising fossil fuel prices, supply and security concerns, and their impact on sustainable energy delivery are among the reasons why many energy and environmental experts has been forced to create a new structure based on the security of energy supply, environmental protection, improving the efficiency of the energy system. The rapid development of nanomaterials has opened new avenues for the conversion and use of renewable energies, especially green hydrogen energy.

Hydrogen can be produced from diverse domestic resources with the potential for near-zero greenhouse gas emissions. Once produced, hydrogen generates electrical power in a fuel cell, emitting only water vapor and warm air. It holds promise for growth in the energy sectors.

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Asean Green Hydrogen Conference 2023

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Opening Ceromony

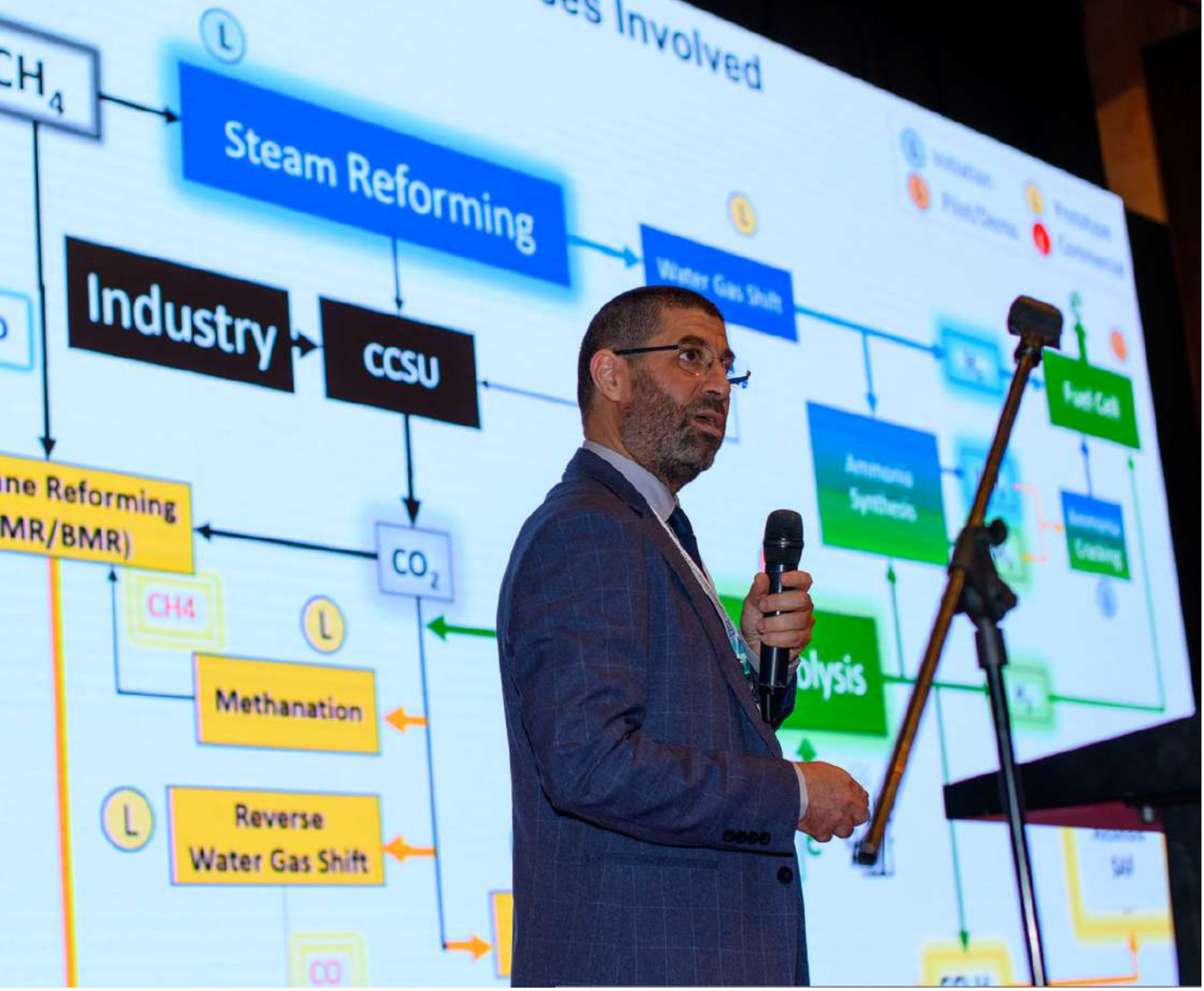
YB NIK NAZMI BIN NIK AHMAD
Minister Of Natural Resources, Environment And Climate Change, Malaysia

The Asean Green Hydrogen Conference 2023 (AGH2) will bring together policymakers, industry players and scholars in the field of sustainable energy to discuss and understand the best strategies and practices related to the energy transition. Malaysia can contribute to global efforts in dealing with climate change issues by implementing successful policies, practices and initiatives.

Speaking Slot :
GREEN HYDROGEN FOR A SUSTAINABLE FUTURE

Green hydrogen can accelerate the energy transition by reducing dependence on fossil fuels and promoting energy independence. It provides an alternative fuel source for transportation, reducing reliance on petroleum and reducing air pollution. Additionally, countries with abundant renewable energy resources can harness green hydrogen production to meet their energy needs and reduce reliance on energy imports, enhancing energy security.

Speaker:
PROF. DATO' DR. WAN RAMLI WAN DAUD
President | Malaysian Association of Hydrogen Energy (MAHE), Malaysia



Speaking Slot :
RARE EARTHS THE HYDROGEN VALUE CHAIN AND POWER TO X

Speaker:
DR HACIB BENAISSA
Product Development Manager
Lynas Rare Earths, Malaysia

Lynas
Rare Earths

Power-to-X refers to a range of technologies that convert excess renewable energy (such as solar or wind power) into other energy carriers or value-added products. Rare earth materials are utilized in various Power-to-X applications.

Speaking Slot: ACCELERATING HYDROGEN PRODUCTION THROUGH LOW CARBON CREDIT TRADING

Speaker:
SCOTT BADGER
Vice President Hydrogen | Worley

Mr Scott explaining on the Hydrogen production and storage needs to get built out according to current thinking immediately. Supply chain infrastructure may be deferred by a number of years.

Speaker:
PAUL HODGSON
Member, Advisory Board
Scaling Green Hydrogen CRC BID, Australia

Speaking Slot:

THE IMPORTANCE OF INTERNATIONAL COLLABORATION TO BUILD AGREEN HYDROGEN ECONOMY

The presentation basically explaining on the point of view of international collaboration that need to be in line with this new energy transition for a better economy and supply chain. Without a collaboration it might have increase the cost & some shortage of experts to carter the need of this future energy.

Speaking Slot :
GREEN HYDROGEN STORAGE & UTILISATION: CHALLENGES & TECHNOLOGIES DEVELOPMENT

Speaker:
JERIN RAJ
Director Southeast Asia,
Black & Veatch, Thailand

BLACK & VEATCH

> Integrated solutions across the hydrogen value chain from feedstock generation through end use application to achieve safe, reliable, cost-effective outcomes.

Speaking Slot:

ELECTROLYSER DEVELOPMENT FOR GREEN HYDROGEN PRODUCTION

Speaker:
MARCOEN STOOP
Business Development Director Asia Pacific

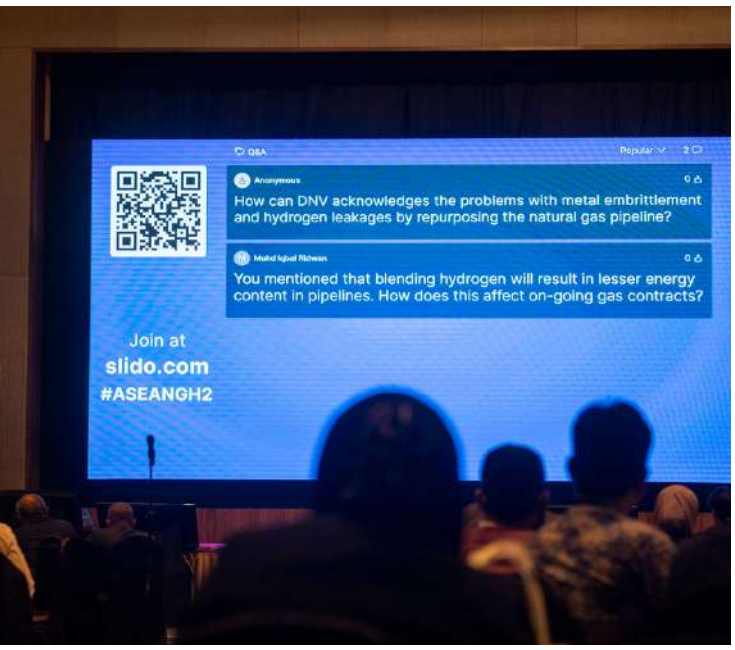
> Technology diversification. A technology leader on two platforms. Alkaline & PEM. Provides flexibility and positions us for growth in different market segments around the world.

Speaking Slot : ADAPTATION OF GAS NETWORKS FOR HYDROGEN TRANSPORTATION

Southeast Asia Energy demand will continue to increase to 2050 due to population growth and increasing role in international trade and transport.

Expansion of renewables penetration should be focused on decarbonising electricity production limiting dedicated production.

Archipelagic nature impacts expansion of interregional electricity and pipeline networks and could favour greater localised production, storage and use.



Speaker:
DR. ROBERT JUDD
Technical Director Hydrogen & Gas | APAC

sarawak energy

Speaking Slot:

PROMOTING HYDROGEN ENERGY ACCESSIBILITY TO THE LOCAL: "PROSPECTS AND CHALLENGES"

Speaker:
DR. NG SING MUK
General Manager,
Research & Development
Sarawak Energy, Malaysia

It is demonstrated on the possibility to bring hydrogen energy to light up the local community. Need to consider various aspects including transportation and social acceptance, not only the technical requirements.

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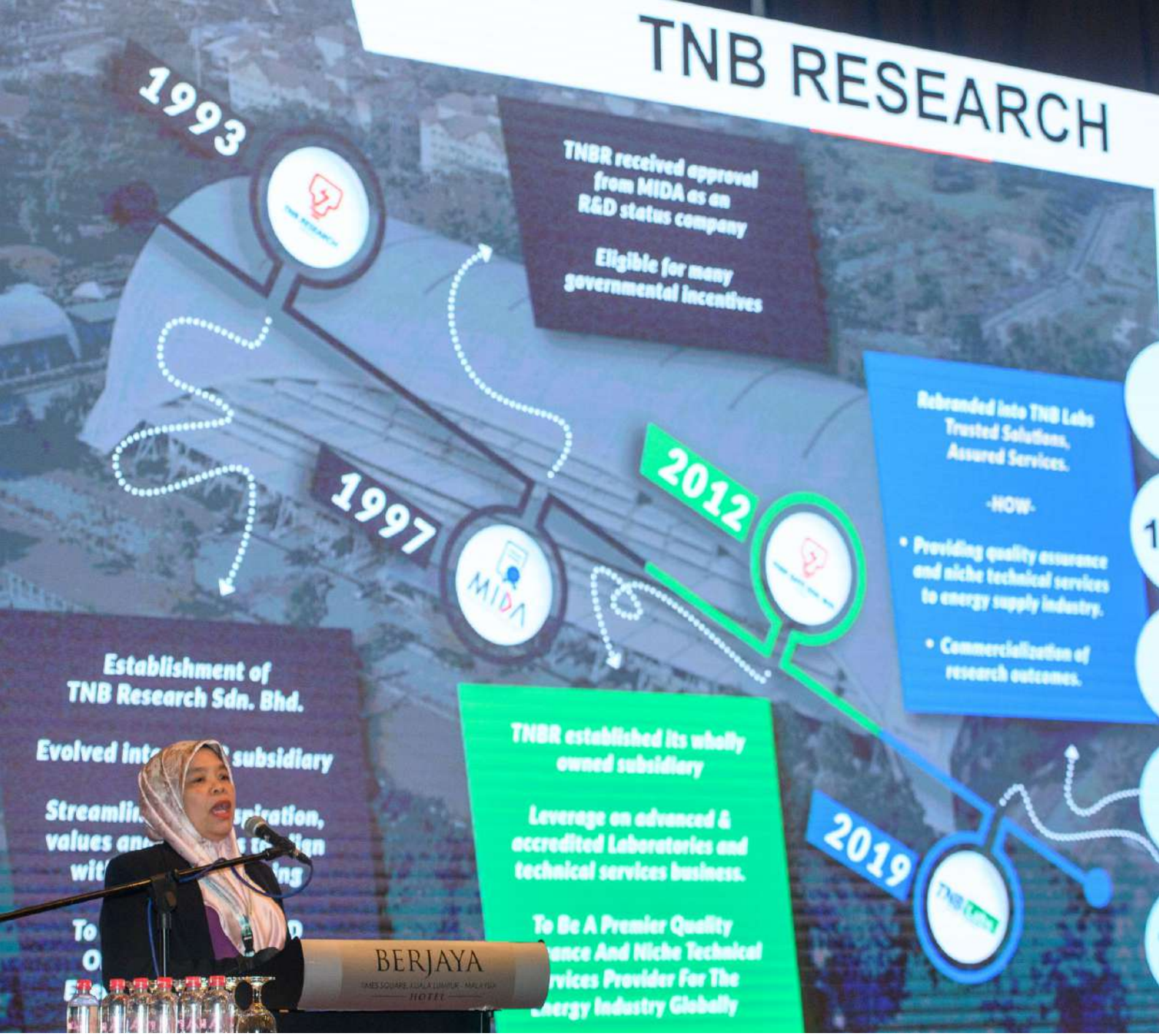
> The production of hydrogen requires energy, which eventually also generates emissions and a carbon footprint. Towards a climate neutral future , green hydrogen certification provides hydrogen producers or users at any part of the hydrogen value chain.

Speaking Slot:

LOW CARBON HYDROGEN CERTIFICATION AND HYDROGEN PROOF OF ORIGIN ORDINANCE

Speaker:
THOMAS FUHRMANN
Head Of Hydrogen Competence Center,
TüvRheinland, Cologne Germany



Speaker:
IR. TS. NORAZIAH MUDA
Head Green Technology & Renewable Unit | TNB Research Sdn. Bhd, Malaysia

Speaking Slot:

GREEN HYDROGEN PRODUCTION, TRANSMISSION & DISTRIBUTION: THE ROLE OF POWER GENERATION OPERATORS

Ongoing project focuses on develop a Hydrogen Roadmap for TNB and techno-economic assessment of the hydrogen deployment potential in the Malaysian energy value chain and deployment risk assessment on TNB's current gas turbine and coalfired assets.

TNB RESEARCH
(259519-A)

Panel Discussion:

ASEAN GREEN HYDROGEN INFRASTRUCTURE DEVELOPMENT

Moderator:
PROFESSOR DATO' IR. DR. A. BAKAR JAAFAR, FASc
Research Fellow & Founding Director | UTM Ocean Thermal Energy Centre (OTEC), Malaysia

Panelist:
DR. MADANA LEELA NALLAPPAN
Regional Analyst Asia Pacific | Energy Industries Council (EIC), Malaysia
PETER GODFREY
Managing Director Asia Pacific | The Energy Institute (EI), Singapore
PROF. RENATO LIMA DE OLIVEIRA
Assistant Professor of Business & Society | Asia School of Business (ASB), Malaysia

The discussion is more on the infrastructure of the hydrogen elements, where should we start, how the government involved and some private partnership & financial bon involved to make sure the new energy sector can sustain and reach the capacity of involving.

Panel Discussion :

POLICIES, STRATEGIES & INNOVATION ECOSYSTEMS FOR FUTURE ENERGY

Moderator:
KHOR YU LENG
Company Director | Business Council For Sustainable Development (BCSD), Malaysia

Panelist:
DR. VICTOR NIAN
Co-Founder & CEO | Centre for Strategic Energy Resources (CSER), Singapore
DATU DR. MUHAMMAD ABDULLAH HJ ZAIDEL
Deputy State Secretary | Economic Planning & Development, Sarawak
DR. REZAL KHAIRI AHMAD
CEO | NanoMalaysiaBerhad, Malaysia
ABDUL AZIZ OTHMAN
President Malaysian Gas Association , Malaysia (MGA)

> Infrastructure Development: Develop a robust infrastructure for green hydrogen production, distribution, and storage. This includes building hydrogen refueling stations, retrofitting existing natural gas pipelines for hydrogen transportation, and establishing hydrogen hubs or clusters where multiple users can share infrastructure and resources, reducing costs and driving economies of scale.

Panel Discussion :

ACCELERATING GREEN HYDROGEN PRODUCTION AT LOW COST

Infrastructure Development: Investing in infrastructure is crucial for the widespread deployment of green hydrogen. This includes developing a network of hydrogen refueling stations, storage facilities, and transportation infrastructure. Governments should provide incentives and support for infrastructure development to drive down costs and increase accessibility.

Moderator:
TS. SHAMSUL BAHAR MOHD NOR
CEO | Malaysian Green Technology & Climate Change Corporation (MGTC), Malaysia

Panelist:
KIRAN JETHWA
Managing Partner | FUMASE LLC, USA
ADLAN AHMAD
Head Of Hydrogen Business Development & Commercial | Gentari, Malaysia
DR. REZAL KHAIRI AHMAD
CEO | NanoMalaysia Berhad, Malaysia
IR. TS. NORAZIAH MUDA
Head Green Technology & Renewable Unit | TNB Research Sdn. Bhd, Malaysia

Establishing clear and transparent legal and regulatory frameworks is essential to provide certainty and predictability to investors. Well-defined laws and regulations govern the rights and obligations of all parties involved, reducing the potential for disputes.

Moderator:
TANMAY BISHNOI
Asia Decarbonisation Strategy Lead | JACOBS, Singapore

Panelist :
KIRAN JETHWA
Managing Partner | FUMASE LLC, USA
CRYSTAL WONG WAI CHIN
Partner | Lee Hishammuddin Allen & Gledhill, Malaysia
JULIA JASIN
CEO | LegalKnights Consultancy Services, Malaysia

Panel Discussion:

BRIDGING THE ECONOMIC GAP: SMART FINANCING THROUGH PUBLIC, PRIVATE, PARTNERSHIPS (PPP) & DISPUTE RESOLUTION

Panel Discussion:

CONNECTING HYDROGEN & RENEWABLE SOURCES (SOLAR, WIND, GEOTHERMAL, HYDROPOWER & BIOMASS)

Moderator:
PROF. MADYA DR. NORASIKIN AHMAD LUDIN
Deputy Director, Solar Energy Research Institute UKM, Malaysia

Panelist:
SANDRA LIZ HON AI LING
CEO & Executive Director | Annica Holdings Limited, Singapore
IR. DR. MOOK TZENG LIM
Biomass & Plasma, Market &Technology | ConsultantNexantECA, Malaysia
ANIL KUMAR ADDANKY
Services Leader | South East Asia, Black & Veatch, Thailand
DR. HIRZUN MOHD YUSOF
Head of Renewables Energy | Sime Darby Plantation Renewable Energy, Malaysia

Renewable energy sources such as solar, wind, geothermal, hydropower, and biomass can be connected with hydrogen production to create a sustainable energy system. Solar and wind power can directly supply electricity for electrolysis processes, converting renewable energy into hydrogen. Geothermal energy can be used to generate electricity for electrolysis, while hydropower provides a reliable source of renewable energy to power electrolyzers. Biomass can be converted into hydrogen through various processes such as gasification or fermentation. By utilizing these renewable sources, hydrogen production can be decoupled from fossil fuels, leading to a cleaner and more sustainable energy future.

Panel Discussion:

POTENTIAL ROLES OF AMMONIA IN A HYDROGEN ECONOMY

Moderator:
DR. MADANA LEELA NALLAPPAN
Regional Analyst Asia Pacific | Energy Industries Council (EIC), Malaysia

Panelist
SCOTT BADGER
Vice President Hydrogen | Worley
PINGYANG LI
SVP -Business Development | ENGIE Hydrogen Asia
EMI OHNO
Deputy General Manager Of Carbon Solution Business Unit
IHI Corporation, Japan

> Ammonia can play a crucial role in renewable energy storage. Excess electricity generated from renewable sources like solar or wind power can be used to produce ammonia through the electrolysis of water and the Haber-Bosch process, which combines hydrogen with nitrogen. The produced ammonia can be stored in tanks or transported, and later converted back into hydrogen or used as a fuel when renewable energy supply is limited.

Panel Discussion:

EXPERT INSIGHTS: IS GREEN HYDROGEN A REAL GAME-CHANGER?

Moderator:
PROF. DATO' DR. WAN RAMLI WAN DAUD
President | Malaysian Association of Hydrogen Energy (MAHE), Malaysia

Panelist:
DR. VICTOR NIAN
Co-Founder & CEO | Centre for Strategic Energy Resources (CSER), Singapore
IR. TS. DR. WAN SYAKIRAH WAN ABDULLAH
Head Business Assessment & Engineering | TNB Renewables Sdn. Bhd, Malaysia
OLIVIER ZEHNACKER
Membranes Head Asia-pacific | Evonik, Malaysia
GANESHA PILLAI
Assistant Director, Strategic Planning Division | SEDA Malaysia

Green hydrogen can enable the integration of different energy sectors, such as electricity, transportation, and industry. It provides a means of converting and transferring energy between sectors, creating a more flexible and interconnected energy system. For example, excess renewable electricity can be used to produce hydrogen, which can then be used to power fuel cell vehicles or feed into industrial processes.

Some of the industrial expert speakers at the events.

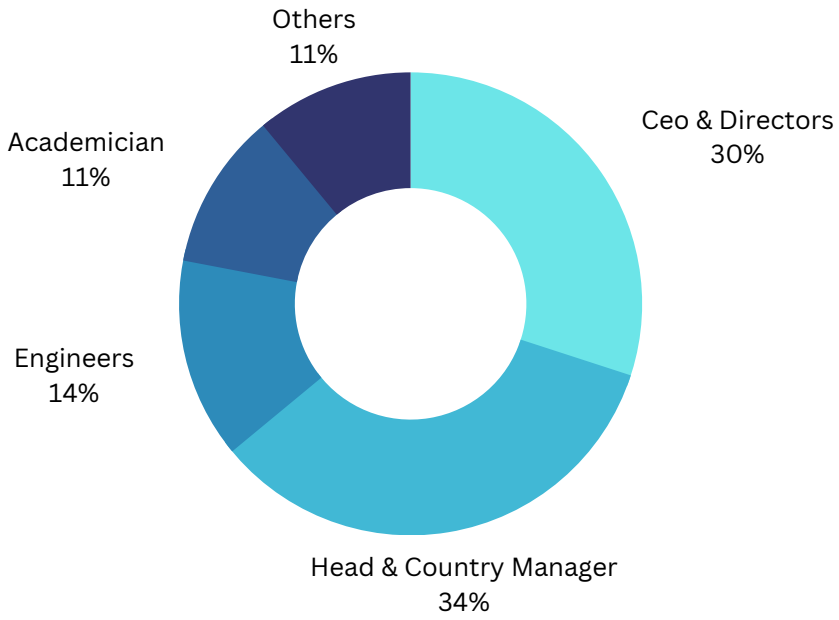
THE Conference
IN NUMBERS

Job Title Highlights

This is the tabulation of the participation according to the job title rank in the AseanGh2 event this year series 2023.

The data shows the dominant job title in this event are coming from Heads & directors' category.

This is in line with our targeted projection before, this year series topics emphasized more on the policy, framework, financing method, law & guidelines before we proceed to the technical topics & audience.



Total Number of **74 Companies** registered at the events.

WHAT HAPPEN AT THE CONFERENCE

- 18 Hours of learning & networking with new people
- 43 Expert speakers share the knowledge on the stage
- 18 Single speaking presentation & 7 panel discussion
- 6 Industrial & association partners exhibition booth
- 15 Association Partners & 4 Media Partners supporting us
- 5 Online industrial expert from Japan, Netherland, India, Singapore & Australia

MORE THEN **250** PEOPLE AT THE CONFERENCE

Speakers Expert At The Conference

Exhibition Foyer

List of Exhibitors

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ENERGY INDUSTRIES COUNCIL
EIC

The exhibition foyer cater selected solution providers & association partners to exhibit their product and knowledge to the audience.

The Environment

NEWS RELEASE

Social Media Overview

85%

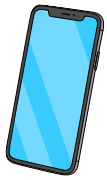
10%

5%

From the pattern, it is clearly stated that LinkedIn is the tools of engaging professionals people for prestige events. Most of the professionals have their own LinkedIn profile for working purpose or offer services to client.

Total Click
8.362k

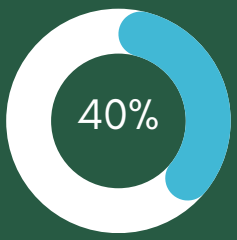
69%



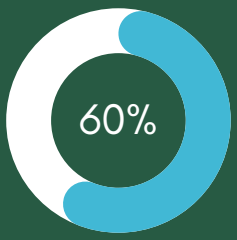
31%

Media Coverage

All the articles and advertising banner of the event is produce by us in house and, we used the collaboration media & association partners to spread the news.



News Portal



Association Partners

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NES GLOBAL TECHNICAL CONSULTANTS SDB BHD
NEW ENERGY & DECARBONISATION, MISC BERHAD
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Photos at the conference

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Roomofleaders SdnBhd (1395906-M)
D8-05-01, Pusat Degangan dana 1, Jalan Pju 1a/46,
47301, Petaling Jaya, Selangor, Malaysia

GET IN TOUCH
Tel : +603 7831 2838
Email :Admin @roomofleaders.com

www.roomofleaders.com