

Development of Green Hydrogen Production in Malaysia

Energy Solutions from Germany

CONFERENCE & INDIVIDUAL BUSINESS MATCHING

19. - 20. November 2024, Kuala Lumpur

www.german-energy-solutions.de



Under the Export Initiative Energy founded in 2002 and the banner “Energy Solutions – Made in Germany”, the Federal Ministry for Economic Affairs and Climate Action (BMWK) has been making an active contribution to the global fight against climate change while promoting the worldwide acceptance and use of sustainable energy solutions. By showcasing Germany’s technical expertise in the field of renewable energy and energy efficiency, the initiative facilitates business contacts between German companies and those from abroad.

From 19.-20. November 2024, the Malaysian-German Chamber of Commerce and Industry (MGCC) is coordinating a **Conference and Business Matching Event** themed “**Development of Green Hydrogen Production in Malaysia**” under this initiative in Kuala Lumpur, offering Malaysian companies presentations by and individual business meetings with German solution providers from this particular field.

Supporting the National Energy Policy 2022–2040, the Hydrogen Economy and Technology Roadmap (HETR) launched in Malaysia in 2023 is a living guide for new industrial development to be propelled by technologies and innovation.

Project Partner:



Green hydrogen has a bright future in Malaysia as the country looks to develop and enhance the renewable energy industry systematically using sources such as solar, bioenergy and sustainable hydropower. German energy solutions related to production, storage and transport of green hydrogen would provide hereby an excellent match.

Join us for an exchange of knowledge and collaboration with German experts at the conference on 19. November as well as B2Bs on 20. November, both providing an excellent platform for stakeholders from the Malaysian and German hydrogen industry to meet.

Contacts for inquiries:

Amanda How
amanda.how@malaysia.ahk.de

Patricia Chin
fuiyean.chin@malaysia.ahk.de

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Development of Green Hydrogen Production in Malaysia CONFERENCE

Tuesday, 19. November 2024 @ Shangri-La, Kuala Lumpur

09:30 **Registration and Welcome Coffee**

Welcome Address

by Ms. Tara Méité, Deputy Executive Director, Malaysian-German Chamber of Commerce and Industry (MGCC)

10:00

Opening Remarks

by Mr. Edwin Stuhrberg, Representative of Federal Ministry of Economic Affairs and Climate Action Germany (BMWK)

Industrial Hydrogen Applications in Germany

10:15 by Ms. Laura Jung, Research Associate, Institute for Energy Efficiency in Production (EEP) and Fraunhofer IPA

Company Presentations by German Solution Providers

- 10:45
1. Beckhoff Automation GmbH & Co. KG
 2. Hexagon Purus GmbH
 3. H2 Core Systems GmbH
 4. Linde Electronics GmbH & Co KG
 5. Maschinenfabrik Reinhausen GmbH
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12:15 Q&A Session

12:30 Business Networking Lunch

Presentation

13:30 by Malaysian Expert Speaker on the Potential of Green Hydrogen in Malaysia

Introduction of H2Uppp and Regional Trade Study of Green Hydrogen and Derived Products in the SEA Region

14:00 by Dr. Pramote Puengjinda, Senior Advisor (International Hydrogen Ramp-up Program, H2Uppp), GiZ

Financing Opportunities for Malaysian Companies for Investments Sourced in Germany

14:30 by Ms. Alexandra Lutz – Divisional Head, Competence Center for German Export Finance, Regional Representative for the German Export Credit Agency (ECA)

15:00 Q&A Session and Wrap-up

15:30 Business Networking Session

17:00 End

Program subject to change

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INDIVIDUAL BUSINESS MATCHING

Wednesday, 20. November 2024

For individual Business-Matching sessions, please refer to the 5 company profiles below and select which German company you would like to meet in the [registration form](#). The organiser reserves the right to coordinate the pre-arranged meetings as deemed suitable for the German companies according to their requirements.

www.beckhoff.com

1. Beckhoff Automation GmbH & Co KG

Beckhoff implements open automation systems using proven PC-based control technology. The main areas that the product range covers are industrial PCs, I/O and fieldbus components, drive technology, automation software, control cabinet-free automation, and hardware for machine vision. Product ranges that can be used as separate components or integrated into a complete and mutually compatible control system are available for all sectors. Our New Automation Technology stands for universal and industry-independent control and automation solutions that are used worldwide in a large variety of different applications, ranging from CNC-controlled machine tools to intelligent building control.

Since Beckhoff's foundation in 1980, the development of innovative products and solutions based on PC-based control technology has been the foundation of the company's continued success. We recognized many standards in automation technology that are taken for granted today at an early stage and successfully introduced to the market as innovations. Beckhoff's philosophy of PC-based control as well as the invention of the Lightbus system and TwinCAT automation software are milestones in automation technology and have proven themselves as powerful alternatives to traditional control technology. EtherCAT, the real-time Ethernet solution, provides a powerful and future-oriented technology for a new generation of control concepts.

Looking to meet and collaborate with:

- **System Integrators:** Process automation solution provider familiar with the applications
- **Machine makers:** Electrolyzer, reconversion
- **End-users:** Electrolyzer, storage, pipeline, transport, fuel station, reconversion, steel production, chemical industry, palm oil refineries that have hydrogenation processes

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www.hexagonpurus.com

2. Hexagon Purus GmbH

Hexagon Purus enables zero emission mobility for a cleaner energy future. The company is a world leading provider of hydrogen Type 4 high-pressure cylinders and systems, battery systems and vehicle integration solutions for fuel cell electric and battery electric vehicles. Hexagon Purus' products are used in a variety of applications including light, medium and heavy-duty vehicles, buses, ground storage, distribution, refueling, maritime, rail and aerospace.

Looking to meet and collaborate with :

Customers who:

- Develop hydrogen infrastructure projects
- Build hydrogen distribution
- Hydrogen producers (oil and gas companies), green/ blue hydrogen producers
- Hydrogen exporters (overland cross-border deliveries)
- Companies that decarbonise heavy duty fleets, want to introduce hydrogen vehicles
- Companies that build full solution – hydrogen production, distribution, hydrogen refuelling, hydrogen vehicles.
- Large industrial users who need high volumes of gaseous hydrogen to deliver and store on site

Partner companies who:

- Are involved in big scale hydrogen development projects and need expert partners in high pressure hydrogen gas distribution equipment

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www.h2coresystems.com

3. H2 Core Systems GmbH

We are a German manufacturing integrator who builds Hydrogen-based systems around the enapter AEM electrolyzer module. These are used for applications such as on-site H₂ production for manufacturing, as load dumping applications for utilities, as hydrogen refueling stations and when used in combination with fuel cells, as power system for remote off-grid community applications.

We have a variety of products which would support initially starting with a small-scale project in the 2.4 kW range and further expanding this to larger systems < 1 MW in the future. Our building blocks are single modules, cabinets or 40 ft shipping containers in terms of size.

Looking to meet and collaborate with :

- A local partner in Telecoms Sector, to help us in promoting on-site hydrogen production in their target market.
- A local partner in Solar VP, Geothermal, Hydro Power sector to support us in promoting on-site hydrogen production in their target market.
- A local partner in the Chemical Sector to support us in promoting on-site hydrogen production in their target market, where hydrogen is used as a feed stock.
- A local partner in the Micro-grid sector, to support us in promoting on-site hydrogen production in their target, where it is used as an energy storage medium.

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www.linde-electronics.com

4. Linde Electronics GmbH & Co KG

Linde is a leading global industrial gas and engineering company, serving a variety of end markets such as chemicals and energy, food and beverages, electronics, healthcare, manufacturing, metals and mining.

Linde is playing a key role in the clean energy transition. The company is actively helping its customers to decarbonize their operations with the latest carbon capture and hydrogen technologies through its world-class engineering organization, key alliances and ventures, and leveraging its extensive experience and infrastructure. Linde is developing clean energy projects across a range of applications and industries and growing its established business along the entire value chain.

Linde in Malaysia has been Malaysia's market leader in industrial gases for more than 60 years. Through the years, Linde Malaysia has expanded its footprint across the nation with well-established infrastructure that supports various industries through supply and service reliability. Steel, glass, chemicals, electronics, food & beverage, welding, cleaning, laser cutting, metallurgy and healthcare are some of the industries we serve.

Looking to meet and collaborate with :

- Chemical & petrochemical companies
- Steel industry companies
- Relevant Government Authorities
- Energy producers

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www.reinhausen.com

5. Maschinenfabrik Reinhausen GmbH

From planning to implementation, Maschinenfabrik Reinhausen (MR) offers solutions for the entire power supply process of electrolysis systems, making them more efficient and durable. Our OLTCs provide optimization of the transformer design with voltage stages adapted to the process enable maximum H2 output at the electrolyzer with reduced harmonics and a reduced reactive power balance.

The H2 process dynamics, connection characteristics and connection conditions as well as the connection rules vis-à-vis the supplier vary, and therefore require customer-specific solutions that can include both STATCOM systems and harmonic filters. The electrolytic transformer with vacuum on-load tap-changer and the compensation systems are considered together in detailed engineering.

The important advantage of our solutions is less reactive power correction, longer service life of the H2 system and lower investment in harmonic filters.

Looking to meet and collaborate with :

- Companies involved in H2 System engineering design
- Electrical package contractors
- Plant owners

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