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PROOF OF CONCEPT CLEAN H₂ SHIPMENT TO PAVE WAY SARAWAK EXPORT THROUGH HYDREXIA'S SOLID-STATE TECHNOLOGY

KUCHING, SARAWAK, October 23, 2025: Sarawak Economic Development Corporation (SEDC) new energy arm, SEDC Energy (SEDCE), is working closely with hydrogen technology solutions provider, Hydrexia to transport clean hydrogen molecules from Sarawak and beyond in solid form.

After several studies and engagements carried out by SEDCE together with relevant agencies, the choice of transportation method for the hydrogen molecules in small and medium volumes lies well with solid state.

“This method is designed for safe transport at ambient pressure and temperature, while meeting the highest purity requirements. SEDCE is continuously engaging relevant stakeholders and agencies with regards to new energy and we are confident that transporting clean hydrogen molecules using this MHX unit is the next way forward and this POC will open up more market opportunities for Sarawak,” said SEDCE Chief Executive Officer Robert Hardin.

The Proof-of-Concept (PoC) shipment journey will begin from Kuching – Port Klang – Singapore – Hong Kong and back to Kuching, demonstrating the enhanced Technology Readiness Level (TRL) of Hydrexia’s MHX container by enabling safe and scalable transport by road, rail, and sea.

This innovation mitigates risks, increasing security and levelising costs— making it a highly attractive option for early-stage hydrogen exports.

“This PoC demonstrates Sarawak’s capabilities to produce, transport, and export its clean hydrogen molecules to international markets. By leveraging Hydrexia’s MHX solid-state technology, we are validating not just the technology but also the logistics required for cross-border hydrogen trade opening more confidence to potential offtakers, regulators, and technology partners while positioning Sarawak as a trusted supplier in the region.

It also lays the foundation for scaling up hydrogen exports, aligning with our ambition to establish Sarawak as a regional hydrogen hub and contribute meaningfully to Malaysia’s energy transition,” said SEDC Chairman Datuk Amar (Dr) Haji Abdul Aziz bin Dato Haji Husain.

Hydrexia is a leading integrated hydrogen technology solution provider with global presence specialising in providing technology solutions for hydrogen production,

storage, transportation, and end-use applications. Hydrexia aims to effectively address the technology and application needs across the global hydrogen industry value chain.

Hydrexia's MHX, based on magnesium solid-state storage technology in a standardised 20-foot container, is delivering intrinsic safety, higher density, and greater flexibility. The technology is gaining traction among global players for its ability to unlock new export pathways.

“We are proud to partner with SEDCE in making this historic export shipment possible,” said Alex Fang, Chairman and CEO of Hydrexia. “Together, we are proving that MHX is enabling cross-border hydrogen trade and creating new opportunities for regional and global markets.”

SEDCE continues to expand its hydrogen portfolio, aligning with Sarawak's Hydrogen Economy Roadmap and Malaysia's National Energy Transition Roadmap (NETR), while building partnerships that accelerate Sarawak's role as a clean energy leader.

Hydrogen molecules from the Darul Hana H2 Plant are transported via tube trailers, which later goes through a hydrogenation process where the molecules are absorbed into the MHX unit. The unit will later be exported to the offtake destination where the solid molecules are dehydrogenated for further purpose.

SEDCE established in 2019 is developing the Sarawak's hydrogen value chain. SEDCE is also responsible for developing the purpose built Rembus Hydrogen Plant to support the Kuching Urban Transportation System (KUTS) which is now at the initial construction phase. The hydrogen produced at this plant will provide the molecules needed for the Autonomous Rail Transit and busses.

SEDCE is also driving the major hydrogen project such as the Sarawak Hydrogen Hub in Bintulu, which aims to supply hydrogen for both domestic and international markets.

Together with all this project in its portfolio, SEDCE is leading the nation in clean hydrogen initiatives, which is key towards decarbonisation towards NET ZERO 2050 for Malaysia.

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About SEDCE Energy (SEDCE)

SEDCE Energy Sdn Bhd is the new energy arm of Sarawak Economic Development Corporation established in 2019. SEDCE is developing Sarawak's new energy agenda, hydrogen development along with its downstream petroleum retail business.

About Hydrexia

Hydrexia Holding Limited is a leading integrated hydrogen technology solution provider with global presence. Hydrexia specializes in providing technology solutions for hydrogen production, storage, transportation, and end-use applications. Leveraging its solid research and development capabilities and industry-leading technology, Hydrexia aims to effectively address the technology and application needs across the global hydrogen industry value chain.

For Media Enquires:

Daryll Law, - Strategic Communications, Assistant Manager
daryll.law@sedcenergy.com