

Finding the sweet spot for CCUS' economic viability

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FOR CCUS to be viable, financial mechanisms must

FOR CCUS to be viable, financial mechanisms must support its implementation. Various financial models exist to support CCUS projects, with different countries adopting different tailored approaches. William Acworth, Executive Director of Pollination highlighted the UK's 'carbon contracts for difference' policy mechanism, where the government guarantees a stable carbon price to incentivise low-carbon industrial projects. If the market price falls below a predetermined reference price, the government covers the shortfall to ensure CCUS projects remain bankable. "The key advantage of the Contract for Difference is that it provides a stable framework, giving the industry confidence that carbon dioxide will become increasingly scarce and valuable

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"The government also assumes a significant liability. If they weaken the system by lowering the emissions cap, causing the carbon price to fall, they must commensate with taxpayer funds.

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"Conversely, if they tighten
restrictions and the carbon
price meets the strike price, no government expenditure is needed," he said during CONNECT Energy Borneo 2025

CONNECT Energy Borneo 2025 conference.

This model acts as both a commitment mechanism and a revenue-sharing tool, guaranteeing a certain internal rate of return (IRR) for projects. Once in place, risk-sharing arrangements, such as insurance, further enable private sector investment, including debt financine.

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Other countries, such as the US and Canada, rely on tax incentives linked to emission reductions.

Malaysia is also considering

a similar approach. Economy Minister Datuk Seri Rafizi Minister Datuk Seri Rafizi
Ramili has stated that while the
government will not fund CCUS
facilities, it is still exploring the
introduction of a carbon tax for
heavy industries such as steel.
"When a carbon tax is in place,
companies or individuals will
have to pay for carbon storage.

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— William Acworth, Executive Director of Pollination

For example, if the carbon tax is set at US\$50 per tonne, they will have the option to either pay the tax or invest the same amount in carbon storage. "This creates a strong business case for CCUS and

during the recent tabling of the

-p4 Acworth (right) and Ash (centre) during the panel discussion at the CONNECT Energy Borneo 2025 conference in Kuching earlier this year.

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markets provide another revenue stream, allowing companies to sell credit is tentities looking to offset their emissions. "We have not seen much of that yet, but that is what the CCS Plus (an initiative to create carbon credit pathways for CSS aims to unlock. It could become a viable business model moving

potential, their effectivenes depends on market structures.

"If a company sells its carbon credits, the carbon intensity of its product remains high However, if it retains the credits

EIC CONNECT ENERGY BORNEU

revenue come from private sector spending to avoid post-taxation, or should the environmental attribute be integrated into the product itself? As a global and integrates them into its supply chain, it can market a lower-carbon product, provi lower-carbon product, providing a competitive advantage in global

markets.
"That strategy could help businesses compete while generating revenue through upstream abatement," Acworth

upstream abatement," Acworth said.

He further pointed out that carbon credits will likely carry a significant cost, making it crucial for companies to determine how best to use them.

"If you sell the credits, someone else benefits, but your product remains high in carbon intensity. On the other hand, keeping those credits within your supply chain allows you to market a lower-carbon product.

"The same principle applies to participation in emissions trading schemes (ETS), where companies that fail to invest in CCUS will face higher costs, making their products less competitive," he explained.

explained. For information, ETS is a For information, ETS is a market-based mechanisms that set a cap on total greenhouse gas emissions and allow companies to buy or sell allowances based on their emissions levels. Firms that reduce emissions below their allocated cap can sell excess allowances, while those

penalties.
This system incentivises This system incentivises businesses to adopt cleaner technologies like CCUS to remain cost-competitive.

To get high-capital CCUS projects off the ground, instruments like contracts for

instruments like contracts for difference or guaranteed revenue for carbon sequestration and storage must be considered. These mechanisms have enabled successful projects elsewhere and should be part of Malaysia's strategic approach, Acworth noted.

Another challenge is risk, particularly liability risks around leaks or operational failures. It is essential to acknowledge these risks and implement frameworks that identify, understand, transfer, and price them effectively within project designs and financing structures.

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International cooperation will
also be key. While Malaysia has
the potential to become a CCUS
storage hub and import carbon
dioxide from other countries, it
will require robust regulatory
frameworks to address import

frameworks to address import tariffs, pricing structures, and emission reduction claims under the Paris Agreement. Ultimately, balancing regulatory frameworks with market-driven incentives will be critical to ensuring the long-term viability of CCUS as a key component of Malaysia's low-carbon future.



(From right) ExxonMobil head of low carbon solutions in Malaysia Adelina Awaluddin and British High Commission in Singapore Southeast Asia Regional Lead for Green Energy and Industrial Decarbonisation Ivana Dimitrova at the panel discussion at the CONNECT Energy Borneo 2025 conference.