



CCS sector in Britain could turn into a 'viable business'

Carbon Capture and Storage (CCS) in the UK could evolve into a viable international business, if the merchant model was applied to developing Track-1 projects, notably the East Coast Cluster. Researchers at Arup also urge Whitehall to fully commit to two further CCS clusters: Acorn in northern Scotland and Viking on Humberside, both due onstream by 2030.

FID on the East Coast Cluster, along with the first CO₂ storage permit for the Endurance carbon storage site in the North Sea is seen as an important milestone. Going forward, the association Offshore Energies UK wants "to see a self-sustaining CCS market within the next decade for gas-fired power, cement, waste to energy and hydrogen production.

"This depends on cost reductions by better collaboration and use of technology, and the development of a pan-Euro-

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British gov' gauges costs of refurbishing CCGT power plants

The British government has contracted Cambridge Economic Policy Associates (CEPA) to conduct research into the costs of refurbishing the country's ageing combined-cycle gas turbine power plants. Modelling software determines the archetypes of CCGTs and works needed ranging from simple maintenance, 5-year lifetime extensions and full repowering.

For typical through life maintenance of major CCGT equipment items, analysts estimate a cost of £50 million, or £31 per kilowatt.

Costs for extending the life of a typical combined-cycle plant by five years, through replacement of key components and balance of plant, were pegged at £140 million, or £81/kW, while costs for repowering a plant at end of life for a further 10- to 25-year service amounts to a substantial £930 million, or £545/kW.

In a second phase, CEPA surveyed and interviewed developers to validate the results of their technical modelling. The questionnaire was distributed to 25 organisations in February 2025 to which five responses were received. None provided information on the cost of extending the lifespan of existing gas generation units.

One respondent estimated that extending the life of a CCGT plant could cost between



Uniper will redevelop the Ratcliffe-on-Soar power station in Nottinghamshire

£90 million and £150 million, but provided little context on what these investments would deliver.

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pean carbon market with the UK at its core," said Enrique Cornejo, OEUK's head of Energy Policy.

Whitehall is urged to announce "a clear funding envelope" for Track-2 carbon capture clusters, notably Acorn in northern Scotland and Viking on Humberside. Both projects are which are due to be operational over the next five years, and OEUK wants to see "a pathway for those projects that sit outside of the current process."

Aiming for a commercial CCS market

Once the Track-1 and Track 2 CCS projects are up and running, the UK can offer carbon capture as a service at an international scale. Developers of CCS clusters can

hereby generate revenue from the sale of carbon capture, storage and transportation services to industrial emitters.

Additional revenue will be generated by European Union or UK carbon emissions trading schemes, and by trades in carbon as a by-product of hydrogen production, cement production and other energy intensive industrial processes, Aron researchers pointed out.

"A self-sustaining commercial market is what everyone is aiming for," Robert Hines, Senior CCS Consultant at Arup underlined. But to develop a viable carbon trading market, there are still open issues around network interconnectivity, technological advances and reducing the cost of CCS within the value chain of finished products.

Infrastructure investment

To meet the UK government's Net Zero commitments, the country must develop and put infrastructure in place to capture and store 20-30 million tonnes of CO₂ per annum by 2030 and 40-50 million tonnes per annum by 2035.

As a producer of oil and gas, the UK has "huge potential to safely store industrial emissions in depleted oil and gas fields and saline aquifers," Aron research finds. Helping EU countries store their CO₂ emissions would open up additional revenues streams for depleted fields in England and Scotland, protect local industry and prolong the value of North Sea infrastructure. ■

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The summary of responses "set out a pathway for unabated gas plants with multi-year Capacity Mechanism agreements to exit the CM and transfer to the Dispatchable Power Agreement, enabling decarbonisation through conversion to power carbon capture, usage and storage (CCUS)," the government said in a statement.

Whitehall told power plant owners that all substantially refurbished or new-built combustion power plants that want to participate in the next CM auction have a "credible plan to decarbonise before they become operational." This can be through converting to hydrogen firing or installing carbon capture equipment. ■

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SE Asia's LNG demand set to soar 182%

Southeast Asia will become a net LNG importer by 2032, with demand expected to soar approximately 182% over the next decade. Wood Mackenzie forecasts natural gas will account for 30% of the region's energy mix by 2050, outpacing both oil and coal particularly in Malaysia, Thailand, the Philippines and Vietnam.

The cleaner-burning fuel is on track to account for 30% of the region's primary energy mix by 2050. Regional gas power capacity will double and related gas-burn is expected to expand by 89.5% between now and 2050.

"The surge in gas demand is driven by the region's rapidly growing economies, data centres expansion, the intermittent nature of renewable energy, and the ongoing transition from coal to gas power," said Johnson Quadros, head of Gas & LNG research at Wood Mackenzie. "However, the region faces challenges in meeting this demand through domestic production alone."

Opportunities for LNG sellers

This shift from coal to gas in the power sector will create opportunities for LNG suppliers, particularly in Indonesia and Malaysia. Identifying strategic partners and addressing financing challenges for LNG infrastructure development will be essential to meet the region's rising gas demand.

Project developers hence seek to secure multiple Floating Storage Regasifica-

tion Units (FSRUs) through 2030. But analysts warn that not enough FSRUs may be available in time which poses risks to growth plans.

Newly commissioned fields and recent discoveries are likely to sustain output through the late 2020s, with yet-to-find volumes projected to come online and maintain supply into the mid-2030s, explained Raghav Mathur, WoodMac's principal research analyst for Gas & LNG. In the subsequent years, however, the region will face a natural decline in supply which will make E&P investment critical for unlocking future volumes – both LNG exports and domestic consumption.

Affordability issues

Despite the drive towards sustainability, affordability remains a major challenge: Government support – through subsidies, tax incentives, or favourable policies – are deemed vital for the success of LNG-to-power projects.

Securing upfront Power Purchase Agreements (PPAs) for these projects will be necessary to sustain the region's growth trajectory. ■

Gas power generation in Southeast Asia by 2050



Source: Wood Mackenzie

Ansaldo, Calik to build 1 GW H2-ready power plant in Hungary

Ansaldo Energia in consortium with the Turkish conglomerate Calik Holdings have signed a contract for the turnkey development of a 1,000 MW combined-cycle power plant in Hungary. The hydrogen-ready plant will be built at MVM Tisza Erőmű's site at Tiszaújváros, an industrial town in northern Hungary.

Csaba Lantos, the Hungarian energy minister, called said the development was of "historic importance" given that no new baseload power plant has been built in Hungary in the past one and a half decades.

Capacity roughly have of Paks nuclear plant

"Once commercial operation begins, the two-block CCGT is expected to supply an average of 7,500 GWh of electricity annually to the Hungarian power grid," he noted, stressing the plant's

contribution will be vital to strengthen Hungary's energy independence, improve supply security and balance rising renewable energy production.

At Tiszaújváros, the new CCGT will be in place of a previously decommissioned traditional power plant. "The power plant to be built at our Tiszaújváros site – whose capacity will be roughly half that of the Hungary's Paks nuclear power plant (2 GW) – will leverage existing electricity grid connections, a cooling water system, and nearby natural gas access," said MVM Group's CEO, Károly Mátrai.

H2-ready gas turbine

Fabrizio Fabbri, CEO of Ansaldo Energia, called it an honour to participate in the project. he MVM Tisza power plant will be the country's most efficient, ready to meet Hungary's growth and increasing energy needs," he said, noting:

"At Ansaldo Energia, we are proud to bring our most advanced gas turbine technology – suitable for hydrogen use – to this project, combining exceptional reliability with outstanding efficiency and operational flexibility." ■



MVM Group's currently decommissioned Tiszaújváros power plant

Revcoo launches new CO2 capture tech

French cleantech firm Revcoo, a French cleantech start-up, has developed a new technology to capture CO2 directly from factory chimneys. The company will launch Series A round to roll out its solution on a large scale, aiming for a turnover of €200 million by 2030. ■

SF6-switchgear for China's SGCC

Hitachi Energy will deliver the world's first sulfur hexafluoride (SF6)-free 550 kV gas-insulated switchgear to the Central China Branch of the State Grid Corporation of China (SGCC). The move towards clean switchgear helps decarbonize the Chinese power grid and contributes towards the country's target of reaching carbon neutrality by 2060. ■

H2-ready plant to power Bridge's data centers in Singapore

Bridge Data, part of Wintrix formerly known as Chinadata Group, has partnered with Meralco affiliate PacificLight Power (PLP) with the aim of developing a hydrogen-ready gas power plant on Jurong Island. Developed at a cost of US\$1 billion, the plant will supply stable electricity to Bridge's growing portfolio of data centers.

As one of Singapore's largest independent power producers, PLP aims to get the new H2-ready power unit into operations in 2029. Initially, the dispatchable plant will have 600 MW minimum capacity and will be capable to burn at least 30% hydrogen along with natural gas.

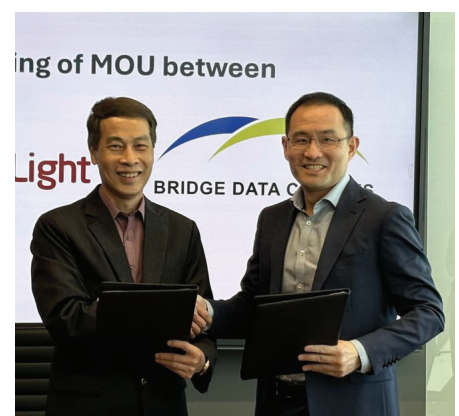
Geraldine Tan, PLP's general manager called the collaboration with Bridge Data Centres an important step forward in accelerating Singapore's clean energy transition. "By combining renewable energy and on-site solutions with conventional power we are creating a more resilient and sustainable energy future for data centres in Singapore," she said.

PLP already runs an 800 MW combined-cycle plant on Jurong Island. Bridge Data Center runs a portfolio of data centres across the Asia Pacific region, most of which situated in Malaysia, but further growth is planned in Singapore.

BOO model

Hydrogen has been singled out by Singapore's government as a "crucial future fuel source." The Energy Market Authority hence launched a tender last June, inviting the private sector to develop two new power plant under the build, own, and operate (BOO) model by 2029 and 2030. BOO contracts are frequently used to deliver large, complex public-private partnership (PPP) infrastructure projects.

The Singapore-headquartered Bridge Data entered the market in 2021 with a 16 MW data center at its MY03 site in Kuala Lumpur's Mranti Park. It runs two further facilities in Cyberjaya with a third under development. The company also launched



Contract exchange between PLP and Bridge Data

a data center just out of Johor in 2022, and in October last year formed a joint venture with Mah Sing Group to develop a 200MW campus outside Kuala Lumpur.

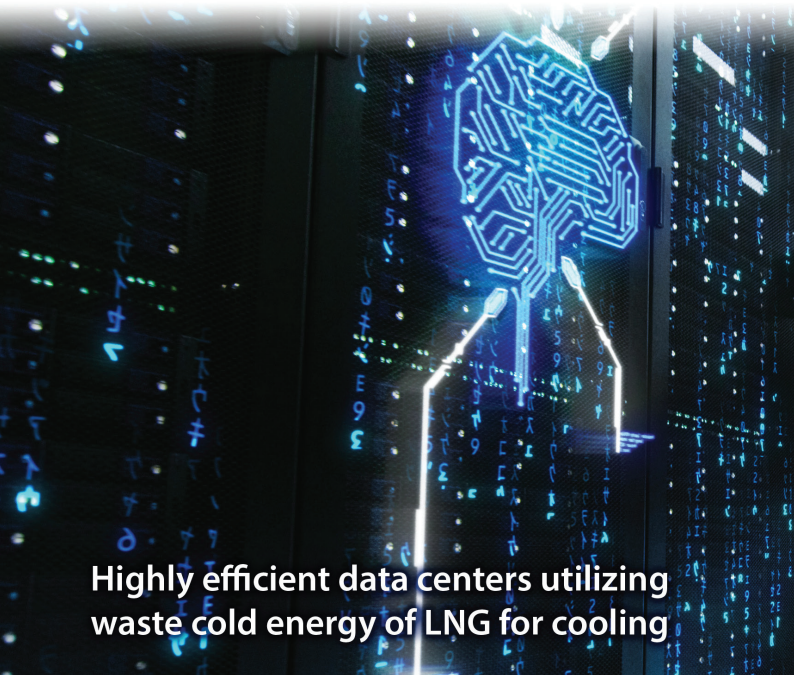
A few weeks ago, Bridge received \$2.8 billion in financing to fund its expansion plans. The debt has been underwritten by a consortium of international and cross-regional banks. ■



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BASF technology to capture 2,000 tons of CO₂ at Taiwanese plant

BASF's OASE blue gas treatment technology, combined with CCAT solutions, is meant to capture 2,000 tons of carbon emissions annually at Taipower's Taichung power plant. If the project proves successful, Taipower will consider developing a larger CCS plant for commercial operation, aimed to capture 1 million tons per year.

Construction at Taipower's Taichung plant is underway – driving Taipower's transition from coal to gas. By introducing CCS demonstration technology, utility seeks to further reduce its carbon footprint.

The CO₂ captured in the initial phase will be sequestered at the Taichung power plant, while the possibility of sequestration in Taiwan's offshore strata will be evaluated going forward.

OASE technology captures CO₂ out of the flue gas carbon capture of fossil power plants, steam reformers, waste incinerators, the cement industry, and the maritime sector. Capture rates of 90% and more have been demonstrated, along with cost efficiency due to the technology's low



View of Taipower's Taichung power plant

energy and amine consumption. According to BASF, OASE can be engineered to achieve high CO₂ purity suitable for food-grade applications.

"We are honoured to undertake Taiwan's first carbon capture commercial demonstration project and collaborate with BASF,"

said Daniel Yao, managing director at CCAT, stressing: "This partnership aims to enhance the technical level and outcomes of environmental protection projects [...] while providing Taipower with more efficient solutions to promote clean emissions in the energy production process."

MCi launches software to track fixed-price contractor work

Management Controls (MCi) has announced the launch of Transparent Lump Sum, designed to help asset-intensive industries – like oil and gas companies and electric utilities – oversee and manage fixed-price contractor work. Lump sum contracts, for long, were considered a 'sell-it-and-forget-it' model' which limited oversight and increased the risk of double-billing.

Industry leaders in oil & gas, chemicals, power generation, mining, metals, and manufacturing have already adopted 'Transparent Lump Sum'. Ken Naughton, President of MCi called the new feature a 'strategic leap':

"Transparent Lump Sum empowers owners to track progress, validate performance, and manage risk on fixed-price work the same way they do on Time & Materials," he said, claiming: "No other platform offers this level of unified contractor oversight."

Clients can now see what risk premium their vendors are charging on Lump Sum work. Industry standards suggest 10-20% risk premium – however, many heavy asset owners are paying 80-100%+ risk premiums but didn't have visibility to prove it.

Users of the new software can also compare

cost performance between Lump Sum and T&M on the same job to determine which contracting strategy would have delivered better value.

By tracking contracts in a centralized platform, they can eliminate double billing by fully allocating labour, equipment, and material across all contract types. Lump sum change orders can be validated and tracked to prevent inflated charges.

Payments can be validated with attached documentation and earned-hour visibility.

"Contractor oversight shouldn't depend on the commercial model," said Naughton. "Our customers told us they needed transparency, even under fixed-price work."



CAMS software helps data centers secure scalable power

Consolidated Asset Management Services (CAMS), has launched a new solution to help data centers secure reliable, scalable, and cost-effective electricity supply. The technology initially focusses on renewable energy and gas-fired generation and allows AI companies in data centres to better tailor their quest to expand computing capacity.

Uptime of power gen assets is critical for data centers which need 24/7 supply of electricity, and lots of it.

The collocated generation services provide streamlined permitting and help with grid interconnection requirements to reduce project timelines. The commercial service includes power purchase agreement (PPA) structuring, fuel procurement, and market participation to maximize asset value.



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Enefit launches procurement for 100 MW power plant in Estonia

Enefit Industry has launched the procurement process a new 100 MW gas-fired power plant Narva, the third largest town in Estonia. The procurement process is open to international contractors, with final proposals due by the end of July 2025.

Construction works are scheduled to begin in early 2026, and the plant will be built under a turnkey construction contract as part of the Narva Balti Power Plant complex. Once a contractor is selected and permits are secured, construction will begin in early 2026.

Though designed to be primarily fuelled by gas, the Narva CCGT will feature hydrogen-capable gas engine technology. This will allow Enefit to decarbonise the plant's combustion process once hydrogen will become widely available at an affordable cost.

"The new power plant will increase the flexibility and reliability of our energy system. Its ability to integrate hydrogen in the future will help ensure that we remain on track with

our climate commitments while maintaining secure electricity supply," said Aavo Kärmas, CEO of Enefit Industry, which is part of Estonia's state-owned Eesti Energia.

The plant will generate both electricity and heat for Narva's district heating network. Once commissioned, it will primarily serve as a flexible reserve, dispatched at times of peak demand or when wind and solar generation is low.

The H2-ready Narva project is a decisive shift away from Estonia's traditional reliance on oil shale, much of which has been cen-



Enefit's Narva Balti Power Plant complex

tered around Narva. By introducing hydrogen as a cleaner-burning fuel source, Enefit is positioning itself for long-term sustainability and regulatory compliance under EU energy and climate policy. ■

Egypt-Greece interconnector to get EBRD and EU financing

The European Bank for Reconstruction and Development (EBRD) and the European Union support the GREGY project, an electric interconnector between Egypt and Greece. A Grant Agreement was signed with ELICA Interconnectors, the developer of the power link, designated to transport renewable energy from the North African coast via Greece to northern Europe.

Egypt, as well as neighbouring countries, possesses exceptionally high-capacity factors in solar and wind energy. Part of this green energy will be transported to Europe via a submarine cable to decarbonise Greek industry and produce green hydrogen for sale to northern Europe.

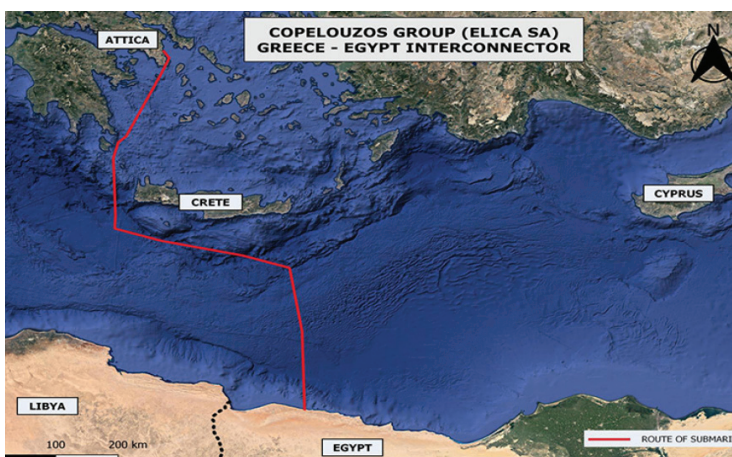
The EU has set out supportive policies towards renewables and hydrogen as the bloc of states seeks to reduce its reliance on Russian natural gas. The green energy trans-

sition is meant to reduce natural gas consumption by 4.5 bcm annually and achieving a reduction in CO2 emissions by 10 million tons each year.

CBA study and technical analysis

The Grant Agreement covers the parts of the funding for the first two studies of the GREGY project. The desktop study, determining the optimal routing of the submarine cable, and the comprehensive cost-benefit and technical analysis – both vital for fast project implementation.

GREGY has already been recognized as a project of major geopolitical and environmental importance for the whole of Europe. Financing will come from the European Union's InvestEU Advisory Hub. ■



Siemens Energy contracted to build 14 GW new capacity in Iraq

Iraq's Prime Minister Mohammed Shia' Al-Sudani has overseen the signing of cooperation agreement with Siemens Energy, aimed at adding 14,000 MW to enhance the capacity of the country's power grid and improve response-times. The contracts were signed by Iraq's energy minister Ziad Ali Fadhil and Siemens Energy CEO Christian Bruch.

During the ceremony, PM Al-Sudani stressed that the government attaches the "utmost importance" to Iraq's energy sector and the international companies operating in it, including Siemens. He urged all contractors and power plant developers active in the country to work more closely with the Ministry of Electricity in the fields of maintenance, production, distribution, and transmission.

Two maintenance contracts, signed alongside the main accord, cover the 340 MW Dibis gas power plant and the 750 MW Al-Mussaib thermal power plant, where an upgrade is meant to add an additional 150 MW. ■

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