



Weekly News

15 March 2024

Doosan Enerbility head targets over \$5 billion in gas turbine contract wins

Doosan Enerbility chairman Park Gee-won has set out 2024 as the starting point for a "massive increase" in contract-wins for H2-ready gas turbines. Supported by last year's substantial rise, the head of the South Korean conglomerate aims for the cumulative value of gas turbine contracts to exceed 7 trillion won, equalling US\$5.31 billion, by 2028.

On a visit to the company's gas and hydrogen turbine factory in Changwon this week, Park said "this year will mark the beginning of a substantial expansion in domestic orders for the jointly developed K gas turbines by over 340 academia-industry partnerships."

Building on its gas turbine business, the South Korean manufacturer seeks to become a key developer of high-efficiency, carbon-neutral power generation technologies. In 2023, Doosan Enerbility received 2.2 trillion won in gas turbine contracts, accounting for 24% of its overall contract value of 8.9 trillion won. In terms of order wins, the company's turbine business is second only to the nuclear power business which garnered contracts worth 4.2 trillion won.

Doosan Enerbility has been developing H-grade hydrogen turbines with up to 50% hydrogen blending since 2020 as part of a national project led by the trade ministry. Made of high-temperature alloy materials, the turbines can withstand temperatures over



1,500 °C. Compared to conventional hydrogen turbines, Doosan expects its H-grade turbines to save about 46 billion won in annual fuel costs and reduce annual CO2 by around 50,000 tons, with a potential to save 23% emissions compared to traditional LNG-fuelled power gen turbines.

Equipment order from SEPCO for two Saudi IPPs

Shandong Electric Power Construction Corporation III (SEPCO-3), responsible for engineering, procurement and construction of two power plants in Saudi Arabia, has selected Doosan Enerbility to supply one 650 MW steam turbine and generator each for Tabia 1 and Qassim 1 combined-cycle gas power plant.

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Consistent Asian call on cross-basin cargoes to push up JKM-TTF spreads

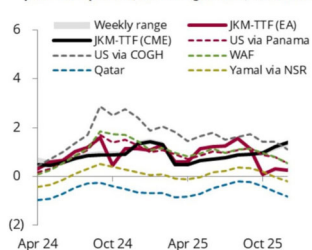
JKM-TTF spreads in Q3-2024 are forecast to be slightly above the freight differential for US LNG shipped via the Panama Canal over the summer. East of Suez, LNG demand is expected to grow by 2.8 million tons in the third quarter, while supply could fall by 0.8 mt on heavier Australian maintenance that quarter, leaving utilities struggle to source fuel for power gen.

Analysts at Energy Aspects stressed they "remain bullish against the JKM-TTF Q3 24 spreads on consistent Asian call on cross-basin cargoes." Demand for shipping Atlantic Basin cargoes over to Asia could increase significantly if several large maintenances coincide in Australia, curtailing supply. Australia Pacific LNG, Gladstone, Gorgon, North West Shelf and QCLNG all have planned maintenance scheduled during the third quarter of 2024, removing a combined 1.1 million from the supply balance – 0.8 mtp more than in the second quarter.

Asian utility buyers are likely to turn to US ex-

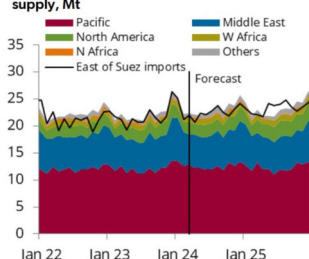
porters whose LNG shipments are set to rise by 1.3 mt this summer as liquefaction plants are pushed to near maximum capacity. But route constraints on key waterways will keep more supply

JKM-TTF spreads, LNG freight diffs, \$/mmbtu



Note: Freight diffs are the increases in freight costs to send cargoes to Northeast Asia instead of Europe
Source: CME, Fearnleys, Argus Media Group, Energy Aspects

Asia-Pacific imports vs assumed price-insensitive supply, Mt



Source: GTT, LSEG, Energy Aspects

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The contract is valued at 150 billion won (US\$114m), with both 1,800 MWs plant due operational by 2027. Tabia 1 and Qasim 1, situated some 200 km north of Jeddah and 200 km northwest of Riyadh, respectively, are being developed by a consortium of ACWA Power and Saudi Electricity Company (SEC). Both have selected SEPCO-3 as the projects' main EPC provider who, in turn, choose Doosan equipment for the plants.

"We are expanding our global contracts, including projects in the Middle East and Asia, with a specific focus on Saudi Arabia where more than 15 GW of combined cycle power plants are expected to be ordered in over the next five year," commented Sohn Seung-woo, head of Doosan Enerbility's power service.

The latest equipment order builds on recent supply contract wins in Fujairah (UAE), Syrdarya (Uzbekistan) as well as for two Ko-

rean CCGT projects in Andong and Gongju.

Saudi Power Procurement Company (SPPC) had stipulated the construction of the two CCGT projects to help meet the Kingdom's electric system requirements, while shifting to gas power generation and adopting carbon capture technologies. Construction of both plants aligns with the Saudi Green Initiative to reach greenhouse gas neutrality by 2060. ■

E.ON boosts investments to €42 billion as grid expansion accelerates

Europe's largest electricity network operator E.ON has stepped up its five-year investment target by 27% to €42 billion (\$46 billion). Considering massive expansion plans for renewables across Europe that need to be connected to the grid, along with heat pumps, energy storage and e-car charging stations, E.ON wants to grow its power grid infrastructure by 10% annually through 2028.

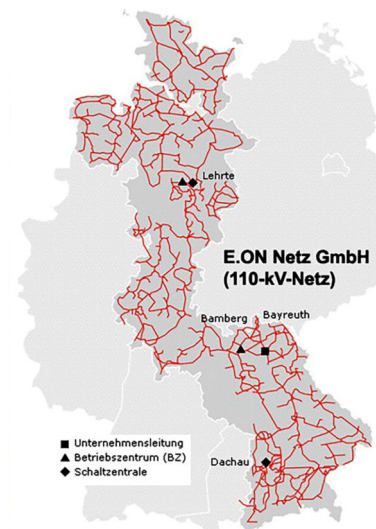
More than €25 billion, or about 70% of total investments will be made in Germany, E.ON said specified as – for the energy transition to succeed – network infrastructure must grow in line with the changes on the feed-in and consumption side. Around €5 billion will be devoted E.ON's growth business Infrastructure Solutions which helps electrify industries and cities while other areas for investment include digitalisation, the rollout of smart meters and intelligent eMobility chargers.

With an implied annual capital expenditure of 8.4 billion euros, E.ON's plan is the most ambitious among German energy companies but analysts pointed out it still ranks behind Iberdrola and Enel which aim

to spend an average of 15.7 billion and 11.9 billion euros a year, respectively.

E.ON CEO Leonhard Birnbaum suggested Capex could surpass the €42 billion target, provided favourable regulation provided sufficient return on network investment. In its investor presentation, E.ON disclosed it additional balance sheet capacity of between €5 billion and €10 billion – substantially higher than what analysts expected.

Chief financial officer (CFO) Marc Spieker said looked back on a strong financial year 2023, in which E.ON "grew in almost all European markets," while the outlook for the years ahead is "very promising as well." Adjusted Group EBITDA of €9.4 billion in the financial year 2023 was €1.3 billion above the prior-year level and also above the forecast



range while net income increased by about €340 million to €3.1 billion, also above target. ■

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east of Suez staying in the region, while Atlantic LNG cargoes preferably head to Europe. "LNG vessels are still avoiding the

Panama and Suez Canals with current crossings down to zero," analysts noted with reference to ship tracking data.

Reacting to the armed conflict in the Red Sea, all Qatari LNG cargoes destined to Europe are shipped the longer route around the Cape of Good Hope. In February, Qatar shipped 10 cargoes to Europe, down from 15 in February 2023 while loading to Asia and "other regions" increased by one and three cargoes, respectively.

Looking ahead, Energy Aspects anticipates "Europe will still get most of its non-flexible term supply from Qatar with some delays, and Qatar will ship more "flexible" cargoes to markets east of Suez with closer proximity."

Route constraints add to upside risk

The Suez Canal and Red Sea remains "largely unusable for US LNG exports" amid armed attacks by Houthi militance hence

almost all cargoes take the longer route around South Africa, if they are headed to Asia. There is hence, significant, upside risks to JKM-TTF Q3-24 spreads if Asian LNG demand spikes due to a prolonged heatwave or supply disruptions in the Pacific Basin.

"JKM-TTF spreads need to spike to the shipping differentials via the Cape of Good Hope – given it is the only useable waterway for US cargoes headed east of Suez," analysts said, noting freight rates are still "fairly unresponsive."

With some 80 new LNG carriers set to be delivered this year – more than double the average 36 carrier additions over 2016-23 – global shipping capacity will reach 460 mtpa this year, some 48 mt more than global supply. With excess tonnage around, Energy Aspects forecasts average Cal-24 freight rates at \$64,168/d, factoring in the likelihood of on increasing Asian call on cross-basin cargoes over the summer. ■

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New UK gas power plants vital but “must be net-zero ready”

Eager to mitigate blackout risks, the UK government promised to “stand with” companies investing in new gas-fired power stations, although they must be net-zero ready. “Without gas backing up renewables, we face the genuine prospect of blackouts,” Energy Security Secretary, Claire Coutinho said when presenting a plan to boost abated gas power capacity as part of a Review of UK Electricity Market Arrangement (REMA).

New gas plants to be built will have to be “net-zero ready,” meaning they must be able to convert to carbon capture and hydrogen co-firing in the future. In a speech at Chatham House, London, Coutinho acknowledged that these gas power plants will run “less frequently” given that the roll-out of other low carbon technologies – notably renewables progresses. She hence vowed the government will “deliver net zero whilst keeping costs down for billpayers.”

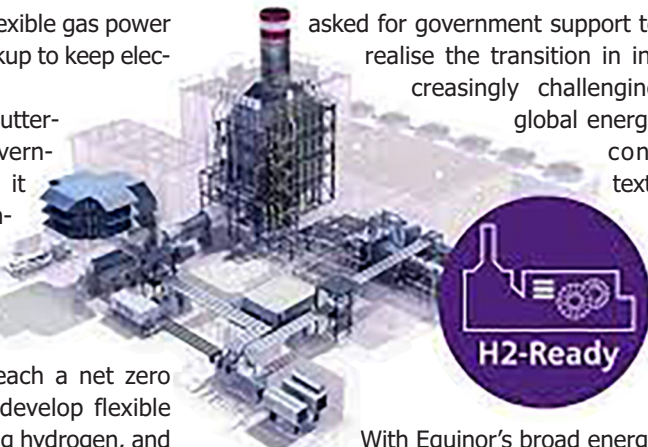
Electricity is high in demand and is powering a growing share of the economy. This year the UK registered the one-millionth electric vehicle which can put a strain on the grid while supply increasingly comes from intermittent power sources. “While the renewable share will increase in the years ahead, they aren’t failsafe, and future supply can only be calculated based on estima-

tion,” she warned, noting flexible gas power capacity is needed as a backup to keep electricity secure and reliable.

National Grid CEO Jon Butterworth welcomed the government’s announcement as it “states a requirement for unabated gas in the power system beyond 2030.” Singling out gas as a “bridge to a clean power system”, he stressed to reach a net zero power system, “we must develop flexible power technologies including hydrogen, and gas with carbon capture and storage.” Timely delivery of phase 2 of the REMA review is of the essence, Butterworth said, as it will “provide industry with policy confidence and unlock crucial investment.”

As for carbon capture and storage, Equinor senior vice president Alex Grant

asked for government support to realise the transition in increasingly challenging global energy context.



With Equinor’s broad energy portfolio in the UK including offshore wind, CO2 capture and storage, hydrogen and battery storage, Grant wants the second REMA consultation to keep its “focus on zonal pricing in place of nodal, which will help maintain investor confidence.” ■

Germany to award €4bn in first CCfD auction to decarbonise industry

Bidding for Germany’s novel decarbonisation scheme for hard-to-abate industries is underway, with €4 billion to be awarded in the first round of the scheme. Over the next four months, companies can apply for 15-year payments through two-way carbon contracts for difference (CCfDs) which compensate for additional costs of switching to climate-neutral production procedures.

Funding will be handed out through Germany’s contested Climate and Transformation Fund and is meant to reach an amount in the double-digit Euro range, the economy ministry said without specifying.

Bridging the price gap

The so-called climate contracts are meant to make steel-, paper- glass- and chemical-producers convert make their production more sustainable, e.g. by retrofitting onsite

power stations with carbon capture, enhance their efficiency or switch to less emission-intensive fuels. To be eligible, projects will need to achieve a 60% emission reduction in three years and a 90% emission reduction in 15 years compared to the best available conventional technologies.

Payments from the CCfD will bridge the price differential between conventional and cleaner manufacturing processes for up to 15 years to allow industries compete on international markets.



Steelmakers can apply for ‘climate contracts’

But once clean production is cheaper than conventional ways, companies have to pay money back to the state – though they can then end the CCfD-contract within three years. Economy minister Robert Habeck said the scheme would give companies price security over one and a half decades, which would especially benefit small and medium sized companies to switch to more sustainable production methods.

With more modern, sustainable production processes in Germany’s paper, glass, steel and chemical industries, the ministry hopes to “immediately avoid large amounts of greenhouse gases.” Over the duration of the funding program until 2045, a total of around 350 million tons of CO2 emissions are meant to be avoided. This corresponds to GHG reductions of up to 20 megatons per year – just over a third of the sector target for industry for 2030.

Over €20 billion up for grabs

In a first call for tenders, the German government wants to make available \$4 billion. In total, the German economy ministry plans to conjure up more than €20 billion for climate protection contracts in four tenders rounds.

Projects based on carbon capture and storage (CCS) cannot participate in the auctions, initially, given that Germany still lacks rules for the technology. Industry keeps waiting for the government to present its carbon management strategy which will specify pathways for CCS and direct air capture. ■

Gulf Energy, Ratch receive maiden LNG cargo for Hin Kong power plant

Thailand's Ratch Group and Gulf Energy Development have imported the first cargo of 62,000 tons of LNG through Hin Kong Power Holding to fuel the latter's 700 MW power gen Unit-1. The maiden cargo is being discharged at PTT's Map Ta Phut terminal, delivered under a 3-year offtake agreement with Gunvor Singapore over 0.5 mtpa of LNG annually.

HKH managing director Thanapong Chiemanukulkit confirmed the utility has entered an LNG supply and purchase agreement with Gunvor Singapore to source fuel for power generation. The privately-held power producer got directly involved in procuring LNG to secure fuel at a high quality and reasonable cost. It also oversees the delivery of gas to the power plant, in line with its production schedule.

To liquefy the super-chilled gas, HKH will utilise the PTT LNG-owned Map Ta Phut terminal 2 from where the natural gas will be fed into PTT's pipeline system to reach power plant. Situated in Ratchaburi province, the Hin Kong generator contains two combined-cycle units a total capacity of 1,400 MW, primarily fuelled by natural gas.

First private power producer to buy LNG

Arrival of the first cargo at Map Ta Phut, "marks the beginning of a private Thai power producer venturing into the upstream value chain of natural gas supply and honing its operational focus on fuel management, Ratch CEO Choosri Kietkajornkul said. "This is crucial for the efficiency and stabil-

ity of the electricity production process," she underlined, with all output supplied to Electricity Generation Authority of Thailand (EGAT) under the 25-year power purchase agreement.

HKH has bold plans for the years ahead. "In 2024, the utility plans to import approximately 0.64 million tons of LNG to fuel the Hin Kong Power Plant, enabling the company to efficiently manage electricity production costs," said Gulf Energy deputy CEO

Porntipa Chinvetkitvanit.

Reacting to this, Gulf Energy will use the LNG sourced through its under-development terminal at Map Ta Phut Industrial Port Phase 3 in to expand access of Thailand's eastern region to imported gas. It plans to import approximately 7.8 mtpa of LNG to fuel its own IPP plants – Gulf Pluak Daeng and Gulf Sriracha – and supply 19 small power producers, industrial gas off-takers and the PTT Natural Gas Distribution Co. ■



View of Map Ta Phut port with PTT's regas terminal

AG&P buys 49% stake in Vietnam's Cap Mep LNG regas terminal

Atlantic, Gulf and Pacific LNG (AG&P), Singapore-based arm of the US investment firm Nebula Energy, has bought a 49% stake in Vietnam's Cap Mep LNG terminal. Built by Hai Linh Company and valued at \$500 million, the 3 mtpa terminal is situated in the southern Ba Ria Vung Tau province and is linked by pipeline to Vietnam's largest power gen complex, with 3.9 GW combined.

AG&P is targeting September for commissioning and start-up of the terminal which will allow sending pipeline gas to nearby power generators and trucking LNG to in-

dustrial customers, notably steel and textile manufacturers, in southern Vietnam.

"With this partnership [with AG&P], we will be able to expedite the terminal's start up and commissioning and LNG terminal op-

erations into Vietnam and serve the exponentially growing LNG demand in our country," said Le Van Tam, CEO, Hai Linh Company.

The 3 mtpa Cap Mep LNG terminal has pipeline connec-

tivity to Vietnam's largest power generation complex, the Phu My industrial zone, with a gas-fired capacity of 3.9 GW. Situated near the Mekong River Delta, the terminal has break-bulk capabilities that allow it to reload LNG into smaller vessels. It also has 14 bays for CNG and LNG truck-loading.

"Cai Mep LNG will enable reliable LNG access to multiple power plants in its vicinity, including Hai Linh's Hiep Phuoc power plant - currently under construction - and to the industries in the South Vietnam region," said Signalling AG&P LNG chief executive Karthik Sathyamoorth.

The new Singapore-based investor has already worked closely with the Cai Mep LNG Terminal team to fully operationalize the terminal by Q3 2024. ■



Cai Mep - Thi Vai Port

Mitsui tests MAN gas injection engine at full load, running on hydrogen

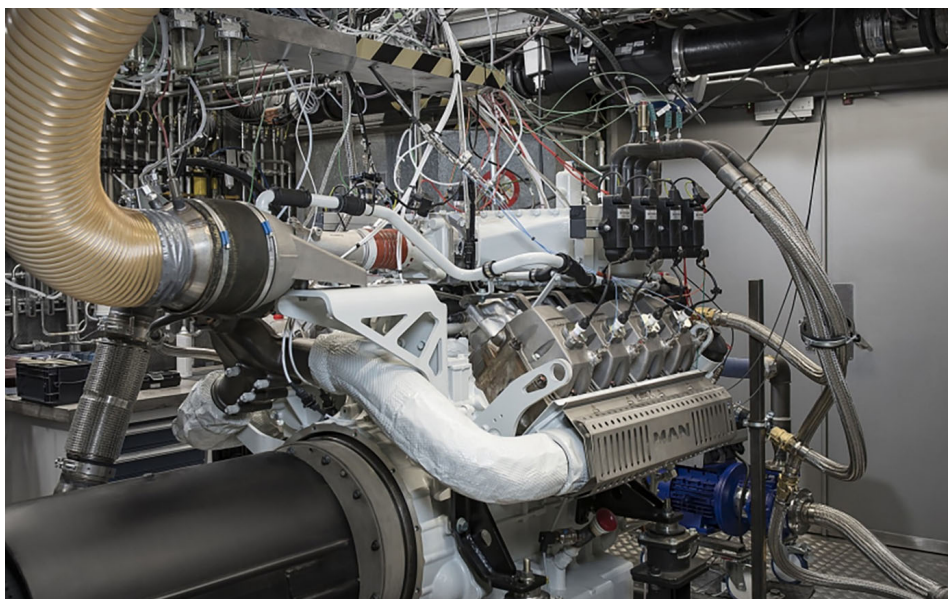
Mitsui E&S has successfully tested a 50-bore MAN B&W two-stroke engine running on hydrogen at up to full load at its Tamano facility. Mitsui converted one of four cylinders of a ME gas injection engine to run on hydrogen, while tests to co-fire a stationary engine for heat and power generation are underway at MAN's test bench in Nuremberg.

The hydrogen engine on the test bench in Nuremberg is an eight-cylinder MAN H3268 V-engine with a bore of 132 millimetres and a stroke of 157 mm. As a stationary engine for combined heat and power generation, it is the first test bench variant to be operated at a constant speed of 1,500 rotations per minute (rpm) at 50 Hz, which is primarily intended for Eurasian target markets.

Numerous parallels exist between the MAN E3268 V8 natural gas engine, presented at Agritechnica ten years ago, and the new MAN H3268. Both are based on the same basic engine, though turbocharging, the injectors and the mixture preparation of the H3268 engine will be adapted for operation with hydrogen.

"Thanks to the similar geometry and identical connections of our future hydrogen engines, we can already offer our customers products that are H₂-ready. That way, we simplify the conversion of existing plants from natural gas to hydrogen operation," says Jürgen Haberland, head of power at MAN Engines.

In terms of performance, the development goal for the MAN H3268 is also based on the similar-size E3268 natural gas engine, which offers 370 kW_{mech}. "We are aiming for a similar performance class for the hydrogen engine as for our natural gas



Stationary MAN engine for CHP generation is tested to run on hydrogen

engine. In principle, we are improving our existing natural gas engine by redesigning it into a hydrogen engine," said MAN's head of engineering, Werner Kübler.

MAN Engines currently offers gas engines for power and heat generation with four, six, eight and twelve cylinders from 50 to 735 kW for power and heat generation. "With the V8, we have deliberately chosen the middle of our service portfolio in order to be able to scale up and down a possible port-

folio of stationary hydrogen engines from the center in a balanced manner." Haberland explains.

While the company focusses on battery-electric drives for its truck and bus group, hydrogen has a wider range of applications – a dual-fuel engine on a wind farm supply ship is already in use and the MAN H4576 in-line six-cylinder engine is being modified as a pure hydrogen combustion engine for off-road applications. ■

PTT and MHI explore ammonia combustion in Thai gas power plants

Bangkok-based PTT Public Company and Mitsubishi Heavy Industries Asia Pacific (MHI-AP) have agreed to carry out a pre-feasibility study for using ammonia for power generation. Both partners will look at logistics and the supply chain, and evaluate the timeline and potential site locations for a 100% ammonia direct combustion at gas turbine-driven power plants in Thailand.

Ammonia, a clean-burning fuel, is vital to decarbonise Thailand's power generation and industrial sectors as the government wants the country to reach carbon neutrality by 2050. For starters, the focus is on curbing carbon in the energy sector.

In compliance with the national target, "PTT aims to reduce 15% of greenhouse gases from normal operations by 2030

with in pursuance of achieving carbon neutrality by 2040 and net zero by 2050," PTT chief executive Auttapol Rerkpiboon said earlier.

Together with MHI-AP, Thailand's PTT hence seeks to lay the foundation for a robust ammonia value chain. To that end, both companies will look at logistics, as well as the safety of ammonia receiving, storage, handling, and delivery to power plants. Once the power plant

sites for ammonia-firing will be selected, MHI will help convert the gas-fuelled combustion systems accordingly to also combust the clean-burning fuel. ■



Close-up of H-25 Series gas turbine



Mozambique's 450 MW Temane gas power plant due online in May

Construction works for Mozambique's largest gas-fired power plant, the 450 MW Temane project, are nearing completion and the plant is expected to be commissioned in early May. Built at a cost of US\$650 million, it will provide cleaner energy to some 1.5 million households in Mozambique and neighbouring Zimbabwe, Botswana and South Africa.

Ground for the Temane gas power plant was broken in May 2022 and the project was developed public-private partnership between South African firms Globelec and Sasol and state-owned Electricidade de Moçambique. The trio shares a 25-concession to own and operated the plan, after which control of the asset will go to the state.

Developers also embarked on the US\$400 million Temane-Maputo Transmission Project, stipulating the construction of a 563 kilometre high-voltage power line and three substations to transport electricity from the new plant within Mozambique and across the region. Globelec was quick to point out that the power station and transmission line are just the first phase of inter-connection to enable northbound transport of electricity. The entire value chain, which also foresees gas upstream development to fuel the power station, could herald a com-

bined investment volume of over US\$2 billion – if realised entirely.

All gas to fuel the power station will be supplied by Sasol from its onshore PT5-C and offshore A5-A assets

under the company's Mozambique Production Sharing Agreement (PSA), which requires in-country monetisation of sufficient gas to fuel a power station and an LPG facility. Based on an investment of US\$760 million, the PSA project is expected to produce about 23 million gigajoules of gas per annum, enough to fuel the 450 MW Temane power plant and produce 30,000 tons LPG per year, while the balance of gas will be exported to South Africa. ■



Construction work for Temane power station

SEPCO turns to Doosan to supply equipment for two Saudi IPPs

China's SEPCO-3, responsible for engineering, procurement and construction of two power plants in Saudi Arabia, has selected Doosan Enerbility to supply one 650 MW steam turbine and generator each for Tabia 1 and Qassim 1 combined-cycle gas power plant. The contract is valued at 150 billion won (US\$114m), with both 1,800 MWs plant due operational by 2027.

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Night time view of Qassim 1 IPP

mtu PowerPack commissioned for semiconductor maker in Malaysia

X-FAB Sarawak, the Malaysian arm of a foundry for speciality semiconductors, has turned to Rolls-Royce to supply and commission mtu Kinetic PowerPacks to ensure uninterrupted power supply for its factory in Kuching. The four mtu units offer 2,000 kVA and compensate for short-term current and voltage fluctuation on the grid, replacing older units of a different make.

The X-FAB site in Kuching manufactures foundry silicon wafers for automotive, industrial and medical applications. The factory in Malaysia can handle 30,000 eight inch equivalent wafer starts per month – a higher capacity than X-FAB's factories in Erfurt and Dresden, according to the company's website. However, the ageing existing DUPS (dynamic uninterruptible power supply) units at the site in Kuching had ongoing issues with dropping critical load from the mains, the customer told Rolls-Royce.

In normal operation, when public electricity supply is available, mtu PowerPacks use a choke – a heavy, rotating electromagnetic coil – to compensate for short-term current and voltage fluctuations in the power grid. Kinetic PowerPacks also undergo preventative maintenance at regular intervals and receive technical support to maximise performance. ■

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