



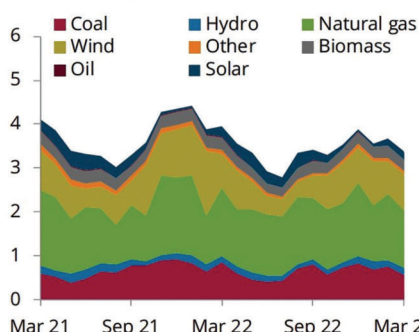
Firmer coal prices could act as support for gas-fired power in Europe

Energy Aspects forecasts balance-of-summer prices at the TTF, Europe's main gas trading hub, at €47.20/MWh – some €5.80/MWh higher than the CME forward curve – amid a tightening global LNG balance as industrial demand normalises. Gas-burn is likely to benefit from firmer coal prices as Europe will lose 30 million tons of Russian supply due to an import ban.

The import ban, imposed in August 2022, will see Europe scramble to source non-Russian coal in the Atlantic basing. But the main alternative suppliers – Colombia, South Africa and the U.S. – are unlikely to be able to boost their supply by that amount, putting Europe in competition with Asia for cargoes. Utilities' need to buy South African coal cargoes at the margin could in turn increase the coal-to-gas switching range in the power sector, analysts noted.

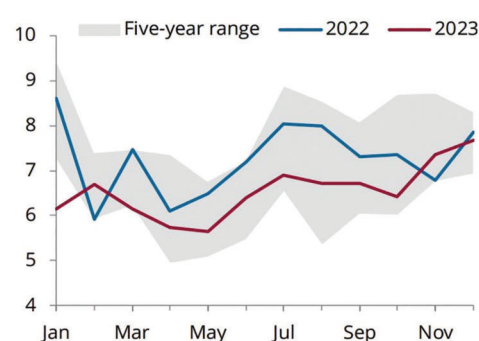
TTF balance-of-summer prices, forecast at €71.80/MWh, are currently hovering around the 10-ppt differential for gas- versus coal-fired power plants, factoring in the cost for emissions credits. If TTF

NW Europe power generation, TWh



Source: ENTSO-E, Energy Aspects

W Europe gas into power, bcm



Note: W Europe is BE, DE, ES, FR, GB, IT, NL
Source: Country SOs, Energy Aspects

gas prices were to fall to a 0-ppt differential at €30.20/MWh – where gas-fired plants have no efficiency advantage over coal-fired ones – then gas-burn for power generation would rise by an incremental 3.4 bcm relative to Energy Aspects' forecast.

Further falls in gas prices would start to undermine the economics of producing electricity from lignite over gas. "If gas fully displaced hard coal from merit then we would expect non-Russian coal suppliers to still have to boost their exports to Europe by 3 million tons (mt) year-on-year," analysts reckon, noting the basecase for

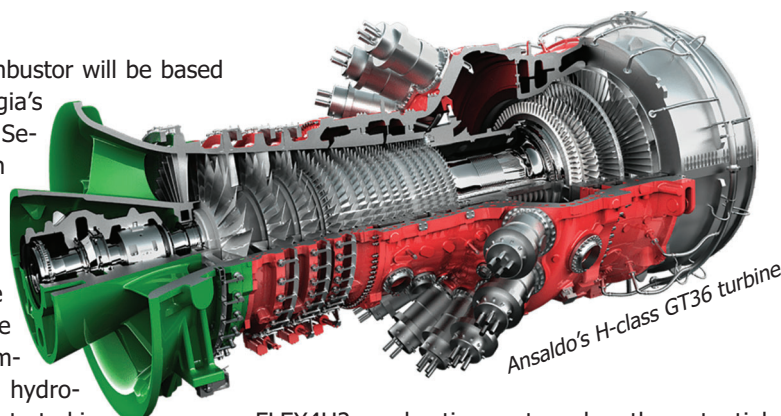
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FLEX4H2 aims for 100% hydrogen co-firing at H-class temperatures

Researchers at the Flexibility for Hydrogen (Flex4H2) project, led by Ansaldo Energia, aim to design, develop and validate a combustion system that can operate on blends of up to 100% hydrogen. This goal will be pursued at H-class operating temperatures, required for highest cycle turbine efficiency, while still meeting emission targets without any use of diluents.

The design of the combustor will be based on Ansaldo Energia's Constant Pressure Sequential Combustion (CPSC) technology, a second-generation combustion system developed for the GT36 H-class gas turbine combustors. The turbine reaches 760 MW in combined-cycle mode and the hydrogen co-firing will be demonstrated in a stepwise approach, at full gas turbine operating conditions.

"One single engine, equipped with the novel



FLEX4H2 combustion system, has the potential of eliminating up to 2,000,000 tons of CO2 emissions per year, whilst delivering enough clean energy to supply up to 500,000 households,"

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coal-burn in the European power sector would require a 15 mt year-on-year boost in non-Russian coal supply which is hard to come by.

Upside risks not only derive from a tight seaborne coal market but also from extreme summer temperatures which makes Europe again face droughts. Low Alpine inflows to the Rhine could threaten the ability the ship

coal from the North Sea along the Rhine to coal-fired power stations. Low river levels also limit the amount of cooling water for nuclear power plants which will require gas-fired plants to balance the missing supply.

Industrial gas demand will recover, albeit slowly, due to the time-lag for falling wholesale gas prices to translate into lower tariffs for industry. By the second half of the year,

gas demand from Western Europe's industries could rise by 6.9 bcm, or 7%, year-on-year after demand in the region had fallen by 4.7 bcm when high wholesale gas prices were passed through to industry.

The 2022 energy crisis has, however, forced industry leaders to shut some factories permanently so some gas and power demand will remain lost for good. ■

IEA sets out credible pathway to limit global warming to 1.5 °C

Decarbonising electricity, tackling non-CO2 emissions, carbon capture storage and reducing deforestation are the four pillars of action in the 2020s if the world wants to limit global temperature rise to 1.5 °C, the International Energy Agency (IEA) said. Renewables build-out would need to triple by 2030 from 2022-levels, reaching 1,200 GW annually – supported by abated gas and energy storage.

Despite falling costs for clean energy technologies, energy-related CO2 emissions continue to rise – so the time window to hold global warming to 1.5 °C or 1.7 °C in 2100 is narrowing rapidly, analysts warned.

Scaling up clean electricity – renewables, nuclear power, fossil fuel power plants with carbon capture, storage and use (CCUS), and plants firing hydrogen and ammonia – is critical to reduce emissions in line with a credible 1.5 °C pathway. Apart from massive wind and solar power deployment, hydrogen co-firing could help decarbonise the power sector, while hydrogen-based fuels would enable deep emissions cuts in industry, transport and buildings.

Electrification and hydrogen

Exponential growth of low-emission hydrogen to 90 million tons by 2030 would be required to substantially decarbonise industry and heavy-duty transport.

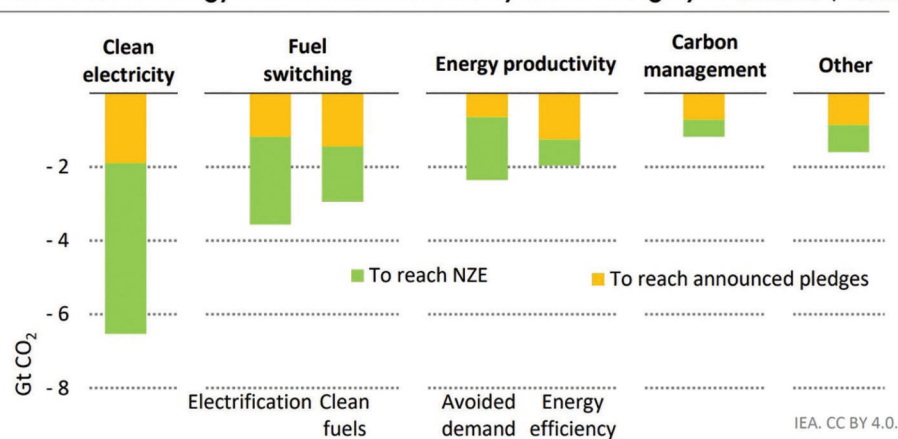
Shipping, in particular, sees CO2 emissions decrease from 0.8 Gt in 2021 to 0.7 Gt in 2030 in the IEA's Net Zero Emissions by 2050 (NZE) Scenario as the use of fossil fuels falls from nearly 100% two years ago to around 80% in 2030. While NZE is a normative scenario which sets out a pathway to stabilise temperature is below 1.5 °C, the Announced Pledges Scenario (APS) assumes government will meet, in full and on time, all their climate-related targets.

By the same token, the share of electric

car sales needs to reach around 60% and the share of electric heavy freight trucks should reach around 35% by 2030. Heat pump sales already increased 11% globally last year from 2011-levels and sales in the EU alone was up almost 40%, spurred by high natural gas prices and government subsidies.

The IEA calls on all countries, especially advanced and major economies, to set clear policy signals to enable utilities and industry anticipate and achieve change. ■

Reduction in energy related CO2 emissions by broad category of measure, 2035



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explained Federico Bonzani, Director Product and Technology at Ansaldo Energia.

The improved combustor design will be fully retrofittable to existing gas turbines, allowing operators to refurbish existing assets. Results of the FLEX4H2 will be made available for "comprehensive exploitation," participants promised, as they want to contribute to the EU Green Deal's objective to decarbonise the power sector by 2030.

Flex4H2 has a budget of around €8.7 million, funded by the EU Horizon Framework and the Swiss department of economic

affairs, and runs for four years through to December 2026.

The consortium includes nine partners from six European countries: Italy's Ansaldo Energia, Germany's Arttic Innovation, the French Centre Européenne de Recherche et de Formation Avancée en Calcul Scientifique – CERFACS, Deutsches Zentrum für Luft- und Raumfahrt – DLR, Italy's Edison, Belgium-based ETN Global, Norway's Sintef Energi, Ansaldo Energia Switzerland, and Zürcher Hochschule für angewandte Wissenschaften – ZHAW. ■

Enex seeks firm electricity offtake for 1.1 GW Batangas CCGT project

Manila-listed Enex Energy has launched a competitive bidding process for electricity from its 1,100 MW combined-cycle gas power project in Batangas province, Philippines. Securing firm purchase agreements for a substantial part of the CCGT's output is vital to get project financing, as construction is meant to commence this year for the plant to start operations by 2025.

Enex seeks to realise the project through Batangas Clean Energy Inc (BCE), a 50:50 joint venture with Singapore-based Gen X Energy which is owned by the US private equity firm Blackstone. The CCGT will cost an estimated 60 billion Philippine Pesos (US\$1.08 billion) to be developed, with a substantial part of the cost meant to come from debt financing.

Situated in the Batangas Bay area, close to Metro Manila, the power project will be fuelled by LNG from a nearby regasification plant and clean-burning hydrogen.

Aiming for SPAs with pass-through mechanism

To advance the project, Enex and its partner Gen X need to source the necessary capital and offtakers to sign firm sales and purchase agreements (SPAs). "We are not yet in financial close. We would like the project to win a long-term contract. It is very risky to invest in a merchant, uncontracted gas power plant," said John Eric Franca CEO of Enex parent company ACEN.

Funding is meant to come from various parties, he said, "notwithstanding the fact that ACEN will not be the source of construction equity." In terms of electricity offtake, he underlined the gas-fired power plant would need a contract with "a reasonable pass-through mechanism" to shield against the volatility of fuel prices.

Striving to sell power to Meralco

The proposed CCGT will participate in the upcoming selection process of Meralco and developers said they hope the project will be able to contribute to the much-needed capacity in the Luzon power grid. "Despite the challenges of the past year, we continue ... to further advance the development of the BCE gas-fired power plant to help address the country's energy needs," Franca said.



Render of Batangas Clean Energy Inc.

The Philippines' Department of Energy (DoE) has ranked the 1,100 MW venture as an "energy project of national significance" due to its substantial nameplate capacity as it could cover up to 10% of demand in the Luzon power grid. Electricity traders and energy suppliers in Luzon will be closely monitoring whether the plant is likely to come into operation in the third quarter of 2026 as planned. Any delays could cause power shortages during peak hours and push up the cost of electricity on the spot market. ■

Nigeria's AKK pipeline advances, set to fuel 3.6 GW power gen capacity

The \$2.8 billion Ajaokuta-Kaduna-Kano gas pipeline in Nigeria is now 43% complete, Nigerian National Petroleum Company Limited (NNPCL) announced, anticipating it will help generate 3,600 MW of electricity. Making use of Nigeria's huge gas reserves of over 200 trillion cubic feet (tcf) can help tackle the nation's energy poverty, said NNPC chief executive Mele Kyari.

Blackouts are frequent in Nigeria, as ageing gas and electricity grid infrastructure and frequent electricity theft undermines the economics of power generation. The World Bank estimates the economic cost of power shortages in the country at around \$28 billion annually – equivalent to 2% of GDP.

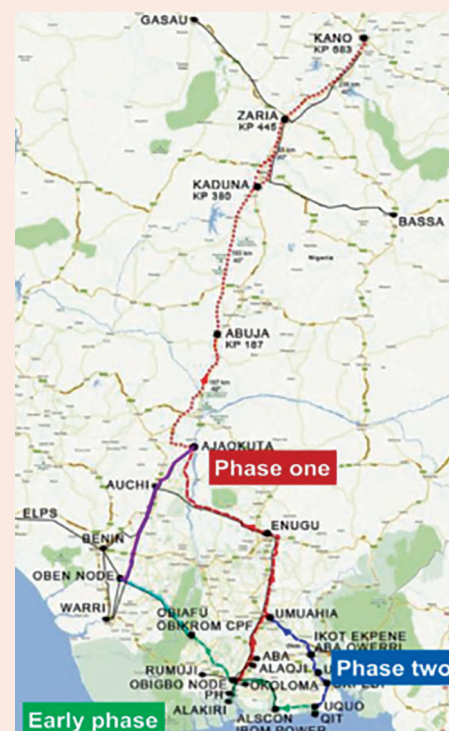
Construction behind schedule

Though natural gas is meant to fuel over 80% of Nigeria's power gen capacity, most of the country's hydrocarbon resources are currently exported. Kyari claimed NNPC "made giant strides in infrastructure," with

nearly half of the 641-kilometre AKK pipeline being built. However, construction works started in July 2020 and are actually behind schedule as commissioning was initially targeted for 2022.

The \$2.8 billion project is implemented via a build and transfer public-private partnership, funded by the Bank of China and Sinosure together with the Nigerian Fidelity Bank. Once operational, the pipeline will transport up to 3,500 million cubic feet (mmcf) of gas a day from various gas gathering projects.

The government's 'National Gas Expansion Programm' aims to supply the cleaner-burning fuel to off-pipeline grid gas customers and industries. Ultimately, the NNPC chief executive aims for the AKK gas pipeline and the new OB3 interconnector to support five billion standard cubic feet/day of domestic gas utilisation. This is meant to include 5 GW of generation capacity from new-built power plants along the pipeline corridors. ■



AKK pipeline, under construction in Nigeria



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JERA aims to import 2 mtpa of ammonia by 2030 to co-fire with coal

Japan's largest utility JERA is aiming to import some 2 million tons of ammonia per year by 2030 to decarbonise its power stations. Co-firing is currently tested at Hekinan No.4 coal power unit where JERA aims for full ammonia combustion by 2050, with most of the clean-burning fuel to be sourced from Norway, the U.S. and Australia.

Two memoranda were sealed in recent months for JERA to buy up to 500,000 tonnes of clean ammonia per year both from Yara's and CF Industry's existing production site. In addition, JERA is considering to invest into CF Industries proposed greenfield clean ammonia facility in Louisiana and is looking to co-produce ammonia with Year in the US Gulf region.

Australia could become another major source of ammonia for Japan as JERA and the US oil giant Chevron plan to invest \$2.5 billion to develop green and blue hydrogen as well as ammonia production facilities Down Under. To quickly ramp up volumes, Chevron will both develop blue hydrogen from natural gas through steam reforming with subsequent carbon capture, as well as green hydrogen by electrolysis water with renewable energy and then synthesise parts

of the volumes to ammonia which is easier to transport as suitable carriers already exist.

To import ammonia, the Japanese technology conglomerate IHI is looking into modifying LNG receiving terminals to be able to also handle the clean fuel, slashing import costs and ensuring effective land usage. The shipping firms MOL and NYK have agreed to transport ammonia as a fuel to JERA's Hekinan thermal power plant from the late 2020s.

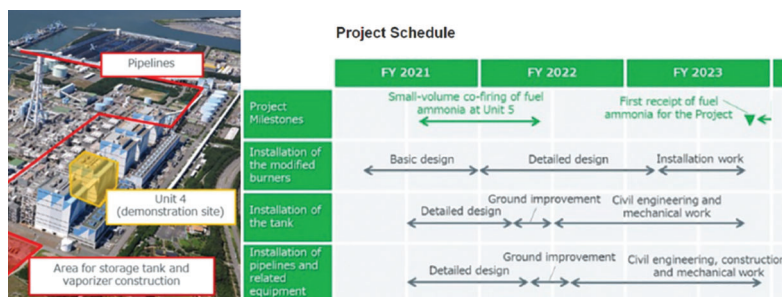
Targeting 20% ammonia co-firing by 2024

Ammonia releases no emissions when burn and JERA is aiming to achieve an ammonia co-firing rate of 20% at Hekinan Unit-4 in fiscal 2024. With an installed capacity of 4,100 MW, Hekinan is the largest coal-fired power station in Japan, consisting of three

a turbine and generator from Toshiba and a boiler from IHI. To speed up the project, delivery and installations times for burners, the tank for storing ammonia, pipes, and other equipment necessary for upgrading Unit 4 have been substantially shortened, project partners confirmed.

Small-volume co-firing is already underway at Unit 5, where two of the 48 burners have been replaced with test burners through to March 2022 as IHI wants to examine the effects of different materials on hydrogen combustion.

The Japanese turbine manufacturer strives to quickly establish a proven technology for full ammonia co-firing by 2050 and subsequently roll out the upgrade at multiple power stations at home and abroad.



700 MW units and two 1,000 MW units.

Co-firing tests focus on Unit 4, commissioned in 2001 and equipped with

H-Tech Systems to produce PEM stacks in Hamburg

Ground has been broken on H-Tech Systems' new production facility in Hamburg. By 2024, the new location will automate the production of PEM electrolysis stacks with a potential total capacity of 5 GW, as MAN Energy Solutions vows to invest €500 million in hydrogen electrolyser to make H-Tech systems "one of the world's top three manufacturers."

"For a successful hydrogen ramp-up, we need to scale up from individual stack manufacture to automated series production," Uwe Lauber, CEO of MAN Energy Solutions said, stressing H-Tech Systems is at the forefront of this development.

Apart from the proven S450 stacks, H-Tech systems will also develop and produce a new, higher-performance generation of stacks at its new premises in Hamburg.

The new site covers 11,000 square meters and will gather stack development, production and testing in one location, employing several hundred employees in the long term. The construction of the automated factory is part of the PEP.IN research project, funded by the German government through the flagship H2Giga project which aims to research novel processes for mass production of PEM electrolysis stacks and electrolysers to make green hydrogen affordable and competitive.

Xcel Energy awards Worley with hydrogen blending study in the U.S.

Xcel Energy, power and gas provider in six U.S. Midwestern states, has chosen Worley to assess the feasibility of blending hydrogen into its large natural gas pipeline network. The study will evaluate what percentage of injected hydrogen the system can accommodate, and what upgrades are necessary at what cost to optimize the blended quantity.

Spanning across US Western and Midwestern states, Xcel Energy's owns and operates 36,000 miles of distribution pipelines and 2,200 miles of transmission pipelines. Injecting and blending hydrogen – a clean fuel when burnt – into its grid, helps the utility to meet its low-carbon objectives.

Study due by July

Worley will carry out the multi-criteria assessment together with its consultancy Advision which has worked on similar projects taking place around the globe. The team will review all of Xcel Energy's assets, notably compression stations, meters, and facilities. Then, it will assess each system, area, and location to evaluate their maximum allow-



able hydrogen blending capability. Findings will show what rate of hydrogen the current pipeline network can accommodate, and estimate the costs for potential upgrades to increase the blend percentages.

The assessment is due completed in July 2023, providing Xcel Energy with data and guidance to decide how to and where to upgrade or adapt its midstream infrastructure. The aim is to bring affordable, clean energy to its 2.1 million customers.

Aboitiz eyes LNG-to-power project of up to 1.2 GW in the Philippines

Aboitiz Power, one of the Philippines' largest utilities and partly owned by JERA, is undertaking a feasibility study to add up to 1.2 GW of LNG-fuelled power generation capacity on Luzon island. Several options are being considered, including an initial 600 MW plant that could be scaled up later to meet the Philippines' baseload power requirement by 2028.

The project is meant to include a new LNG regas and import terminal in Pagibilao on Luzon island, where Aboitiz Power currently operates several coal-fired power stations. The utility wants expand its installed capacity in Luzon, Visayas and Mindanao to 9.2 GW, aiming for a 50:50 clean energy and thermal power mix. To this end, it is considering venturing into nuclear energy and has approached U.S.-based NuScale Power, said the CEO of Aboitiz Power, Emmanuel Rubio.

Japan's largest LNG importer JERA in September 2021 acquired a 27% stake in Aboitiz Power and is expected to help source fuel for the utility's proposed LNG-based power plants.

LNG to replace Malampaya gas

The Philippines' energy department has given the green light for seven LNG import terminal projects, including two facilities planned to start up this year to deliver fuel to existing power plants that used to run on dwindling output from the Malampaya field.

Linseed Field Power Corp, a local Philippine company, wants to commission the 3 mtpa PHLNG regas terminal in Barangay Ili-

ijan, Batangas City, in April – in time for the arrival of a cargo bought by San Miguel Corp (SMC) for its 1,200 MW Ilijan combined-cycle gas power plant. Developers had initially aimed for a March start-up.

SMC is understood to have secured a string of cargoes, though the price tag may be a concern, the ministry noted.

FGEN LNG, part of FirstGen Corp, and BW LNG are also gearing up to commissioning their 5.26 mtpa regas terminal with a view to start full commercial operation in June 2023. FirstGen recently extended its charter for a floating LNG import terminal from BW LNG for five years, allowing a swift increase in LNG imports before the utility will build a more costly onshore terminal. Developers are understood to source cargoes via Tokyo Gas, which has ample trade connections with LNG suppliers.

For First Gen, one of the largest power providers in the Philippines, the timely start-up of the FSRU is crucial source fuel for four gas-fired power stations – the 1,000 MW St Rita, 500 MW San Lorenzo, 414 MW San Gabriel and the 97 MW Avion plants – which currently run on gas from the Shell-operated Malampaya field where production will cease by 2024. ■



Cheaper LNG set to drive coal-to-gas switching in the power sector

Global LNG prices have fallen to below \$14/MMBtu in early 2023, down from record averages of \$40/MMBtu last year, prompting coal-to-gas switching in the European power generation and industrial sectors. But for key markets in Asia to react, Wood Mackenzie reckons prices would need to fall below \$12/MMBtu before any meaningful oil-to-gas switching occurs.

The trigger for coal-to-gas switching in Europe was pulled when prices dipped below \$19/MMBtu. If gas prices decline further, utilities could be incentivised to recover some more gas demand against competing fuels, said Lucas Schmitt, gas and LNG analyst at Wood Mackenzie. However, the trigger point for any oil-to-gas switching in Asia is forecast to be below \$12/MMBtu – substantially lower than that for coal-to-gas switching in Europe.

Trucked LNG drives Asian demand

Lower gas prices look certain to drive demand in China, as Asia's largest economy has some room for trucked LNG volumes to recover without initially relying too heavily on the spot market. "If spot LNG prices start competing with the highest levels of contracted LNG – estimated around \$14-15/MMBtu – we could see some appetite emerging again. But the scale of Chinese economic growth in 2023 as it emerges from the Covid pandemic will be the biggest driver to support LNG demand" Schmitt explained. ■



Illustration of LNG tanker discharging

WattBridge commissions 288 MW Brotman power plant in Texas

U.S.-based independent power producer WattBridge Energy has commissioned the 288 MW Brotman power station in Brazoria County, Texas. Powered by six LM6000 gas turbines, Brotman is the developer's fifth power station built in the state within 36 months and brings total generating capacity in the Electric Reliability Council of Texas (ERCOT) to 1.824 MW, serving 1.2 million homes.

Fast-start LM6000 gas turbines deliver peaking power help balance the fast build-out of wind and solar PV in the Lone Star State, where WattBridge has expanded its operating portfolio from six LM6000 units in January 2021 to 38 units today.

Performance credits needed to develop new capacity

The Texas State Legislature identified the need for more dispatchable generation and WattBridge plan to develop at least 4,000 MW in the state, though President Mike Alvarado cautioned those plans may be forced to change due to changes of market structure.

"We've been proud to contribute to the Texas Miracle of affordable energy security with 2,400 MW operational or under construction and at least a further 1,600 MW in advanced development that could be online by 2026," he said, stressing: "Our business requires the Performance Credit Mechanism (PCM) as adopted by the Public Utilities

Commission of Texas (PUCT) – without the regulatory certainty that allows us to invest in a 30-year asset, we simply cannot move forward."

The PCM initiative includes a include a cost cap on the reliability program of \$500 million per year. According to Jeff Canon CEO of the peaking-power solutions provider PROENERGY, these guardrails will render virtually any investment in dispatchable generation uneconomical.

"No owner can withstand these proposed changes to the PCM, and (...) I suspect that not one megawatt of dispatchable power could be built; in fact, the movable nature of dispatchable power might see units redeployed out of the state," he warned. ■



BROTMAN
288 MW



Mitsubishi to ship three more turbines to Rayong CCGT in Thailand

Japan's Mitsubishi Power, part of MHI, is busy preparing to supply and install three further M701 JAC gas turbines at a combined-cycle power plant in Rayong, central Thailand. Delivery is part of a 5,300 MW contract awarded from Gulf PD for two CCGTs in Rayong and Chonburi, each comprising of four power trains with one turbine each.

Delivery of the fifth out of eight contracted turbines was just completed to the Rayong power plant in central Thailand as two CCGT are expected to be in commercial operation by October 2024. To meet this deadline, Mitsubishi is now speeding up the shipment of the outstanding three turbines.

The four M701 JAC gas turbines for the

Conburi combined-cycle plant already commenced commercial operation in October 2022 and have exceeded 25,000 actual operating hours since. The overall project comprises two CCGT, each with four power trains comprising a gas turbine, steam turbine, heat recovery steam generator and generator.

The Rayong CCGT is owned by Gulf PD Company, a joint venture project by Gulf Energy Development, one of Thailand's largest independent power producers, and Mitsui. Though the pandemic cause disruptions during the peak construction period, Mitsubishi stressed "the project has progressed in line with the initial schedule as a result of the close collaboration, ingenuity and efforts of everyone concerned." ■



Rayong CCGT, owned by Gulf PD

Capstone wins Energy-as-a-Service contract from Texan oil producer

A large West Texan oil producer has handed and order to Capstone to provide and install an additional C800S Signature Series microturbine following a 3.6 MW Energy-as-a-Service (EaaS) contract earlier this year. The oil firm is using the microturbine energy systems to power production loads, using the on-site associated gas produced from its day-to-day operations.

Capstone's EaaS solution was selected due to its proven track record of reliability in remote oil and gas fields across the world and its extremely low emissions profile. As all maintenance is included with the rental contract, the customer will benefit from fixed operating costs for the term of rental.

Performance, reliability and carbon footprint are key criteria for operators to select rental power generators. Manufacturers strive to offer transportable, durable and simple equipment which ensure stable performance and low maintenance.

"With emissions that are 90% lower than our customer's previous solution and on-site power generation technology that requires only 6 hours of planned maintenance per year, our C8000s microturbines enable our customers to focus on their core business and not worry about power reliability," concluded President of Lone Star Power Solutions' President, Doug Demaret. ■

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