LNG Unlimited

LNG JOURNAL PUBLICATION

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Haisla Nation now partnered with Pembina for Cedar LNG project

Former Jordan Cove developer Pembina has estimated costs at around US$2.4Bln

LNG News Editor

Pembina Pipeline Corp., the Canadian company that planned the Jordan Cove export project in the US northwest state of Oregon and rejected by the Biden Administration, has teamed up with the Haisla First Nation of native North Americans to pursue the Cedar LNG export venture in British Columbia.

"The project is strategically positioned to leverage Canada's abundant natural gas supply and British Columbia's growing liquefied natural gas infrastructure to produce industry-leading, low-carbon, low-cost Canadian LNG for overseas markets," stated Pembina.

Kitimat and Douglas Channel beyond set for FLNG venture

Floating plant

Cedar LNG is a proposed floating LNG facility near Kitimat in BC within the traditional territory of the Haisla Nation and close to the LNG Canada project currently under construction for Royal Dutch Shell and Asian partners.

The Cedar joint venture will be the largest First Nation-owned infrastructure project in Canada and is expected to have one of the cleanest environmental profiles in the world.

It will be developed on Haisla Nation-owned land in the Douglas Channel, one of the principal shipping routes on the BC coastline.

The Cedar plant will have an initial liquefaction capacity of around 3 million tonnes per annum of LNG and will source natural gas from the prolific Montney Basin in northeast BC.

The partners said the Cedar LNG's floating design offers significantly fewer environmental impacts on the Douglas Channel and the facility will be interconnected to the existing BC Hydro transmission system, utilizing renewable electricity to make Cedar one of the lowest emissions-intensity LNG facilities globally.

Important

"It was important for us to find a partner with the same values of environmental protection and community-centred on development," said Crystal Smith, the Haisla Nation Chief Councillor.

"Pembina's long history of safe, reliable operations, and engagement with local communities made them the distinct choice for Cedar LNG," she explained.

"With a strong partnership, Cedar LNG will bring tremendous economic opportunities and benefits - ensuring the Haisla people have control of our own future," stated Smith.

Pembina has estimated that the gross project cost of Cedar LNG was US$2.4 billion, or around C$3.0 billion.

Cedar LNG will leverage Pembina's existing LNG off-taker relationships to secure long-term, tolling-based offtake arrangements with LNG buyers, likely including Japan's biggest utilities.

The Calgary, Alberta-based company said that its returns are expected to be similar to other large-scale capital projects undertaken by Pembina.

Pembina's Jordan Cove project in Oregon was the first hydrocarbon venture stopped by the Biden Administration after the Federal Energy Regulatory Commission flipped a previous approval.

Farewell Oregon

That liquefaction plant was proposed for a 200-acre site at Coos Bay in Oregon, comprising five small-scale Trains, each with 1.5 million tonnes per annum of output, for a total of 7.5 MTPA.

The Jordan Cove project had also included the separate 230-mile Pacific Connector Pipeline traversing four counties in southern Oregon on the route to the liquefaction plant and cargoes were destined for Japan.

Pembina said that the partnership between Pembina and the Haisla Nation was a meaningful collaboration to deliver responsibly-developed, world-class energy.

"We believe that environmental stewardship, Indigenous prosperity and inclusion, and mutual economic benefit are the cornerstones of future energy infrastructure development in Canada," said the company. ■

UNLIMITED AGENDA

Indonesia sets up more natural gas volumes for Bontang LNG export plant or for domestic use

LNG News Editor

The latest gas appraisal well has been successfully drilled at the Maha-2 discovery offshore the liquefied natural gas export plant at Bontang in the East Kalimantan region of Indonesia.

The Maha-2 gas find is located 16 kilometres southeast of the Jangkrik Floating Production Unit (FPU) operated by Italian energy company Eni.

Nation's largest LNG plant is set to extend life span

Operator

The Italian company and field operator Eni has marked another major achievement in Indonesia following the start-up in April 2021 of Merakes gas field.

"The well has been drilled to a depth of 2,970 metres in 1,115 metres water depth and encountered 43 metres of gas bearing net sands with excellent reservoir characteristics in levels," said Eni.

"The production test, which was limited by surface facilities, recorded an excellent gas deliverability of the reservoir flowing at 34 million standard cubic feet per day," added Eni. "Through the test and the coring of the reservoir important data have been collected to perform all the studies required for the preparation of a field development plan for the Maha field, where two other appraisal wells are planned to be drilled," stated the Milan-based company.

The successful exploration campaign conducted by Eni in the deep water of East Kalimantan has already delivered the producing projects of Jangkrik and most recently Merakes.

The Merakes gas field is expected to hold total estimated reserves of 2 trillion cubic feet of lean gas in place. It is anticipated to extend the life of the LNG facilities located at Bontang. The Bontang plant has around 11.5 million tonnes per annum of output from six liquefaction Trains.

The Merakes gas field lies in 1,500 metres of water in the East Sepinggan production sharing contract (PSC) offshore East Kalimantan in the Makassar Strait.

It is located 35km southwest of the Jangkrik field and 170km south of the Bontang LNG plant.

Gas production is being transported to the Bontang LNG plant using other existing facilities of Jangkrik field as well as the East Kalimantan transportation network.

The development plan will most likely foresee a subsea completion and a tie-in to the Jangkrik FPU.

The proximity of Maha field to the existing infrastructures will allow the companies to maximize the synergies and reduce time and costs of future subsea developments.

Eni is the operator of West Ganal Block containing Maha-2 through its affiliate Eni West Ganal Ltd and owns 40 percent.

Neptune Energy, the leading European independent exploration and production company, and Indonesian state energy company Pertamina hold a 30 percent stake each.

"Maha-2 is an exciting development for Neptune Energy, and this latest milestone brings us a step closer to bringing the discovery into production via existing infrastructure, supporting both Indonesia's growing domestic energy demand and its burgeoning export market," said Neptune Energy's Managing Director for Indonesia, Eko Lumadyo.

Latest Turkish Black Sea natural gas find is thrown into regional pipeline gas and LNG mix

Turkey President Tayyip Erdogan has claimed a Black Sea natural gas discovery by state-owned Turkish Petroleum (TPAO) of an additional 135 billion cubic metres of gas at the offshore Amasra-1 field, opening the way for production to offset some of the nation's LNG and pipeline natural gas import needs.

Erdogan said the Amasra-1 discovery would help put the nation on track to start Black Sea production in the next couple of years.

Erdogan said that the TPAO find brought the total amount of resources discovered to 540 Bcm when adding the 405 Bcm of gas at the Tuna-1 well in the Sakarya field, the biggest ever discovery in the Black Sea announced by Turkey in August 2020. "Our 'Fatih' drill ship has made a new natural gas discovery of 135 billion cubic meters in the Amasra-1 well in the Sakarya Gas Field," said Erdogan said at a ground-breaking ceremony at Filyos Port for a natural gas operational facility for the Black Sea province of Zonguldak.

Turkey has imported pipeline gas from Russia, Azerbaijan and Iran, while LNG imports have continued to grow with Algeria and Qatar all having long-term Turkish LNG supply contracts while the US has been shipping an increasing number of cargoes.

Transit pipelines also go through Turkey to supply the European Union, including the Turk-Stream connection from Russia and the Trans-Adriatic Pipeline from Azerbaijan.

Turkey in 2020 imported 10.72 million tonnes of LNG with its four largest suppliers being Algeria with 3.96MT, Qatar with 2.26MT, the US supplying 2.22MT and a further 1.32MT coming from Nigeria.

The first Turkish Black Sea gas discovery in 2020 was also made by the "Fatih" drillship which was previously the "Deepsea Metro II" bought by TPAO in 2017 to work in Turkish waters.

The "Fatih" discovered the Sakarya gas field in August 2020 after drilling a well in 2,117 metres of water to a total depth of 4,775 metres, leading TPAO to declare the discovery of around 400 Bcm of lean gas.

TPAO then signed up a pre-front-end engineering and design study on Sakarya's development, with the aim of producing first gas by 2023 or 2024.

The President also stated that Turkey planned to develop its new natural gas reserves in three stages.

He explained that the first stage included the natural gas production systems to be established on the seabed, adding that the second stage would be the start-up of the onshore natural gas processing facility at the Black Sea port of Filyos.

Lithuanian facility hopes to surpass cargo total

The Lithuanian LNG import terminal at the Baltic port of Klaipeda handled 49 LNG cargoes in the gas year from October 2020 until the start of June 2021 and hopes to better this performance through the rest of the year.

The 2020-2021 gas year volumes were down by just one shipment from the previous gas year when 50 cargoes were imported.

Lithuania's imports amounted to a net 1.44 million tonnes in 2020, which was a 2.7 percent increase on the previous year.

The volumes included 750,000 tonnes from Norway even as the Hammerfest plant shutdown from the end of September 2020 after a fire.

A further 480,000 tonnes came from the US and 210,000 came from the Russian Yamal plant.

Klaipedos Nafta, the Lithuanian oil gas storage company and operator of the Lithuanian facility, the floating storage and regasification unit (FSRU) "Independence", said it completed the annual procedure of allocating LNG terminal capacity for the new gas year.

The FSRU has been in operation at the port of Klaipeda since October 2014. It is owned by Höegh LNG Holdings and chartered for around $68 million per annum.

"Customers, including the Norwegian energy company Equinor will use the pre-ordered 8.9 terawatt hours of LNG terminal regasification capacity during the gas year starting on October 1, 2021," said Klaipedos Nafta.

Last year, 8.4 TWh was distributed during the annual capacity allocation procedure, and an additional 12.3 TWh of natural gas was ordered during the gas year.

Enagás signs deal with Peninsula for Strait of Gibraltar bunkering

LNG News Editor

Huelva LNG terminal in southwest Spain can supply fuel

Enagás, the Spanish gas grid and liquefied natural gas terminal network operator, and maritime fuels company Peninsula Petroleum Ltd, have signed a joint venture deal for the building and charter of an LNG bunkering vessel based at the Port of Algeciras to serve the Strait of Gibraltar shipping lanes.

The bunkering vessel with capacity of 12,500 cubic metres will be built at the South Korean Hyundai Mipo Dockyard shipyard and is expected to be delivered in the third quarter of 2023.

The vessel will be chartered by Peninsula through an initial seven-year contract. It will load LNG fuel at Enagás regasification terminals, mainly the one at Huelva in southwest Spain.

The Enagás subsidiary called Scale Gas signed the agreement with Peninsula.

The LNG bunkering project will be co-financed by the European Union to the tune of €11 million ($13.3M) as part of the EU Connecting Europe Facility (CEF) transport aid programme.

The financing is available as part of the EU's support of the development of LNG as a maritime fuel to help avoid sea pollution and to improve air quality in ports.

"The signing of this agreement is in line with Enagás's commitment to promoting the development of a value chain that allows more efficient and sustainable maritime transport," said Marcelino Oreja, Chief Executive of Enagás. John A. Bassadone, the CEO and founder of Peninsula, said the project would serve a growing market and promote cleaner fuel.

"Peninsula and Enagás share the vision of developing the use of LNG as a transitional maritime fuel," explained Bassadone.

"Having the support of a partner like Enagás is incredibly positive and exciting," he stated.

Also party to the agreement is the Spanish Port Authority of Algeciras.

Sovcomflot signs charters for Aframax LNG-powered tankers

Russian fleet owner Sovcomflot and Sakhalin Energy, operator of the LNG plant in the Russian Far East, signed long-term time-charter contracts for two existing LNG-powered tankers, which will be re-fuelled at the liquefaction and export plant.

The vessels chartered by SCF are the "Korolev Prospect" and the "Vernadsky Prospect".

The agreements were signed at the 24th St. Petersburg International Economic Forum by Igor Tonkovidov, Chief Executive of Sovcomflot, and Roman Dashkov, CEO of Sakhalin Energy, in the presence of Alexander Novak, Deputy Prime Minister of Russia and Alexey Miller, Chairman of the Management Committee of Gazprom, majority owner of the Sakhalin II joint venture.

The vessels will be delivered to the charterer in 2024 and employed to shuttle crude oil for the Sakhalin II project for 10 years, with an extension option for up to three years.

Prior to delivery, both tankers will be upgraded, including the installation of a bow loading system and a modification to their LNG bunkering systems to allow direct fuelling from the project's LNG plant and production complex at Prigorodnoye on Sakhalin Island.

Following the delivery of these two vessels to the charterer, the shuttle tankers currently employed at Sakhalin II will continue to provide shipping services to other Sovcomflot customers.

"The Russian government keeps a strong focus on environmental protection, continuously introduces measures to enable the reduction in atmospheric emissions, and lends its support to similar initiatives of the business community," said Russian Deputy PM Novak.

"Agreements signed today between Sakhalin Energy and Sovcomflot, which provide for using LNG-fuelled tankers in the Russia's Far East, demonstrates a responsible approach towards sustainability," added Novak.

"Adopting LNG as a fuel within transportation industry, including seaborne transportation of Russia's export cargoes, is meant to play a significant part in increasing the environmental safety of our planet," stated the Russian politician.

JUDGING IN PROGRESS!

Thank you for supporting the **2021 Power Play Awards**! You play an important role in recognizing and celebrating the remarkable professionals who support and empower others in the workplace.

The awards nominations are now closed, and the esteemed **judges** are reviewing the submissions. We're awestruck by the number of submissions and the incredible accomplishments of these outstanding nominees. Their collective work across the LNG value chain around the globe is inspiring.

We will announce the finalists in the four categories on July 19, 2021 and open the community voting from **July 19, 2021 to August 6, 2021.** At that time, you can help determine the winners by casting your vote. The winners will be announced during Gastech in September of 2021.

The four categories for the **2021 Power Play Awards** include:

- **The Rising Star** for an outstanding young female professional
- **The Ambassador** for outstanding leadership
- **The Pioneer** for outstanding business, innovation and/or technology contributions
- **The Conqueror** for a resilient woman who has overcome many challenges, particularly in light of the 2020 pandemic

For more information on the Power Play Awards, visit **http://bit.ly/PowerPlayAwards!**

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NEWS NUDGES

Singapore supply deal

Pavilion Energy of Singapore and the UK major BP, through its trading arm in the Asian city-state, have signed a long-term LNG sale and purchase agreement (SPA) for the supply of around 800,000 tonnes of LNG per year to Singapore for 10 years from 2024. Beyond the supply of LNG to Singapore, both companies will strive to co-develop and implement a greenhouse gas (GHG) quantification and reporting methodology.

GTT patents ranking

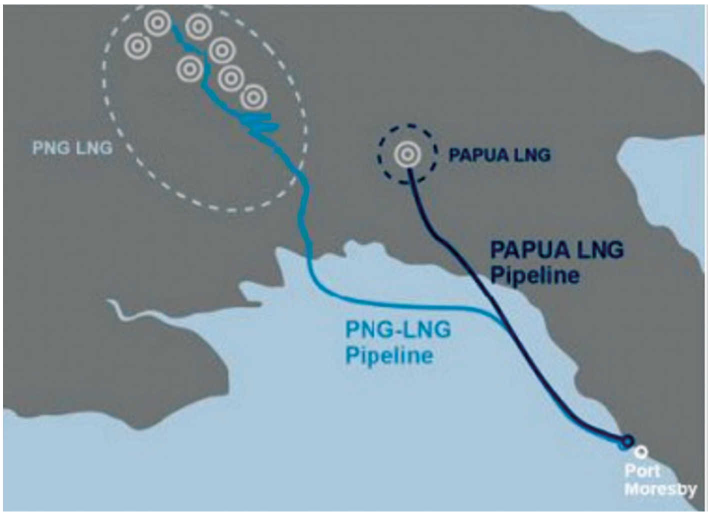
French LNG storage tanks technology firm GTT was ranked first in the list of intermediate-sized companies (ETIs) issued by the France-based National Institute of Industrial Property (INPI) for patent applications, numbering 58 patents. In the ranking of the Top 50 patent applicants in all categories, GTT came in 30th place. “This ranking confirms GTT's strong capacity for innovation. With a research and development budget representing 10 percent of its turnover in 2020, GTT places innovation at the heart of its strategy, in all its activities,” said the company.

Charter rates rise

Shipping charter rates for LNG carriers in the spot market rose again in the past week by around $5,000 per day in the West of Suez market to between $64,000 per day and $60,000 per day for vessels of 155,000-165,000 cubic metres capacity. For vessels East of Suez spot charter levels were unchanged at between $54,000 per day and $50,000 per day, according to London brokers. One-year charter rates for the most modern vessels edged higher to around $78,000 per day.

Papua Guinea LNG expansion partners agree schedule for engineering and investment towards first gas in 2027

LNG News Editor



Feed-gas pipelines to PNG plant at Caution Bay

Oil Search, one of the shareholders in the Papua New Guinea LNG expansion project called Papua LNG, said the joint venture was aiming for front-end engineering and design completion by 2022, a final investment decision by 2023 and first gas by 2027.

“All the Papua LNG stakeholders are aligned on the project schedule,” said PNG-based and Australian Securities Exchange-listed Oil Search in a June 8 corporate presentation to shareholders.

Stakes

French oil and gas major TotalEnergies and the Government of PNG said in May 2021 that they had agreed to proceed again with the Papua LNG project using feed-gas from the Elk-Antelope resources, among the largest onshore gas fields in Asia.

TotalEnergies is the main shareholder in the Petroleum Retention Licence 15 that will underpin most of the production increase at PNG LNG.

The French company holds 31.1 percent of the expansion feed-gas licence, ExxonMobil Corp. 28.7 percent and Oil Search has a 17.7 percent share.

The existing PNG LNG plant, located at Caution Bay northwest of Port Moresby and operated by ExxonMobil, already produces around 8.8 million tonnes per annum of LNG, about 28 percent above nameplate capacity.

Previous studies on Papua LNG supported new capacity comprising liquefaction Trains each with 2.8 MTPA of output and the feed gas flowing from the Elk-Antelope fields.

It is expected that the gas produced from these fields will be transported by a 320-kilometre onshore-offshore pipeline to the Caution Bay site to be liquefied in two or three LNG Trains.

The new Trains will be integrated into the existing PNG LNG facilities.

Oil Search also noted in its presentation that the existing liquefaction and export plant would be debt-free after 2026.

“PNG LNG production levels are also targeted to be maintained beyond 2030,” said Oil Search.

Outside of the PNG LNG expansion, Oil Search said it was confident going forward on the financing front as well as on hedging activities.

“A syndicated corporate loan refinancing is in progress as the company enhances its balance sheet strength to support growth,” said Oil Search.

On hedging activities, the company said it executed arrangements with a price floor of $55 per barrel for 9 million barrels of North Sea Brent crude.

Oil Search maintained that its assets were world-class and with leading LNG partnerships and in oil with Repsol of Spain.

The company said its production growth would come from 1.2 billion barrel of oil equivalent of 2C resources and with output rising 80 percent by 2030.

Oil Search told its shareholders that the Pikka oil project in Alaska was advancing.

It said the Pikka project front-end engineering and design was progressing well and a final investment decision would be timed subject to funding.

“Multiple funding options are under consideration for Pikka oil and the FID is targeted for the fourth quarter of 2021, subject to funding certainty,” explained Oil Search.

The company said one funding option was a sale process for a 15 percent equity sell-down in the Pikka project.

Executives also told shareholders that the Pikka venture’s advantages included a project redesign with a low-cost modular expansion strategy.

The Alaskan project had established an experienced on-the-ground operating team and the project had been optimised for sustainability purposes with a focus on minimising greenhouse-gas emissions.

“From now until 2025, Oil Search aims to unlock its Pikka Phase 1 oil project in Alaska and Papua LNG to drive material capital appreciation for shareholders,” stated the company.

Oil Search believes the Papua LNG project was particularly well positioned as it had proximity to markets, was away from any pinch-points while at the same time offering Asian buyers high heating-value LNG.

US expects Henry Hub price to average $3.07 per MMBtu amid LNG growth and flat natural gas

LNG News Editor

LNG exports and natural gas consumption are rising

The United States expects dry natural gas production will be flat and average 92.9 billion cubic feet per day in the second half of 2021 before output rises in 2022 to underpin LNG exports and more gas use outside the electricity generating sector amid switching to less expensive US coal for power.

Natural gas production is projected to rise to 93.9 Bcf per day in 2022, according to the Short-term Outlook if the US Energy Information Administration.

Forecasts

The report also expects the natural gas spot price at Henry Hub to average $3.07 per million British thermal units for all of 2021.

"We expect the Henry Hub spot price will average $2.92 per MMBtu in the third quarter of 2021 and $3.07 per MMBtu for all of 2021, which is up from the 2020 average of $2.03 per MMBtu," explained the EIA.

"Higher natural gas prices this year primarily reflect two factors: growth in liquefied natural gas exports and rising domestic natural gas consumption outside of the power sector," stated the EIA.

"In 2022, we expect the Henry Hub price will average $2.93 per MMBtu amid slowing growth in LNG exports and rising US natural gas production," added the report.

The EIA forecasts that US consumption of natural gas will average 82.9 Bcf per day in 2021, down 0.5 percent from 2020.

"US natural gas consumption declines in the forecast, in part, because electric power generators switch to coal from natural gas as a result of rising natural gas prices," stated the report.

The report expects natural gas consumption will average 82.8 Bcf per day in 2022.

On natural gas inventories, the EIA estimated that they amounted to almost 2.4 trillion cubic feet (Tcf) at the end of May 2021, which is 3 percent lower than the five-year average.

"More natural gas was withdrawn from storage during the winter of 2020-2021 than the previous five-year average, largely as a result of the colder-than-average February temperatures that contributed to a drop in natural gas production," explained the EIA.

The Outlook forecasts that inventories would end the 2021 injection season (end of October 2021) at 3.6 Tcf, which would be 4 percent below the five-year average.

On the switch to coal for power, the EIA expects US coal production to total 600 million short tons (MMst) in 2021, which is 61 MMst (11 percent) more than in 2020.

"The increase is driven primarily by rising electricity demand. In 2022, we expect coal production to grow by an additional 5 MMst (1 percent)," said the report.

The Outlook sees most of this growth coming from rising demand for steam coal in Europe and Asia as increased steel prices during 2021 and 2022 drive exports.

US coal exports are forecast in 2022 to increase by 14 percent, or by and additional 12 MMst. ■

Sembcorp in Transocean agreement changes

Sembcorp Marine, the Singapore-based company specialising in offshore platforms and LNG projects such as conversions and the building of its first LNG-powered tugs, has entered into agreements to amend delivery dates for two ultra-deepwater drill-ships contracted to build for global operator Transocean.

Under the new agreements, which took into due consideration work disruptions arising from the Covid-19 pandemic, the delivery dates of the two vessels have been rescheduled to December 2021 for the first vessel, "Deepwater Atlas", and May 2022 for the second vessel, "Deepwater Titan".

Sempcorp said that Transocean had already paid 35 percent and 30 percent of the contract price for "Deepwater Atlas" and "Deepwater Titan" respectively.

The "Deepwater Atlas" contract will also entail, US$50 million payment to JSPL upon delivery, with the remaining sum of approximately US$370M payable in quarterly instalments with accrued interest within five years from the delivery date.

The "Deepwater Atlas" is expected to commence drilling operations on the Shenandoah project in the US Gulf of Mexico in the second half of 2022 for BOE Exploration and Productions LLC of the US.

The "Deepwater Titan" agreement will see Transocean pay JSPL 80 percent of the amount payable upon delivery, or around US$350M, and the remaining 20 percent, or around US$90M, will be payable in quarterly instalments with accrued interest within five years from the delivery date.

GasLog completes transactions to make LNG fleet private firm

LNG News Editor

GasLog Ltd, the operator of a fleet of 35 LNG carriers, has completed its merger transaction with the infrastructure unit of the giant US asset management firm BlackRock and the company has now been taken private.

The closing of the transaction follows a special general meeting of GasLog's shareholders held virtually where the transaction and related agreements received the requisite approval of GasLog shareholders.

Stake

The deal involves the acquisition of around 45 percent of GasLog's outstanding common shares by BlackRock.

This was required by the Agreement and Plan of Merger first signed on February 21, 2021 and subsequently amended on April 20, 2021.

GasLog said trading in the company's common shares on the New York Stock Exchange are now suspended and the full delisting of the common shares from the NYSE is expected to be effective in around 10 days.

Piraeus-based Greek LNG ship-owner has modern fleet

Peter G. Livanos, Chairman of GasLog, based in the Greek port of Piraeus, has described the transaction as a "transformative" step for GasLog, offering the company access to growth capital currently absent in the public equity markets.

GasLog had moved its headquarters just over 18 months ago from Monaco to Piraeus, home of its operational platform, to improve efficiency and to reduce overheads.

It has now found a deam partner in a unit of the BlackRock group, the world's largest asset manager with $8.67 trillion under management.

The GasLog-BlackRock transaction was the third major merger and acquisitions deal in the LNG shipping sector in 2021.

It followed the takeover of Golar LNG Partners by New Fortress Energy, the New York-based LNG and power project developer in Latin America and the Caribbean.

Then Höegh LNG Holdings decided to partner with the infrastructure unit of US investment bank Morgan Stanley.

Höegh LNG was also de-listing and analysts said it would be worth observing in the months to follow the level of transparency remaining in the three companies in an industry previously renowned not just for discretion but for secrecy.

Höegh LNG Partners names board members from Morgan Stanley bank

Höegh LNG Partners, the US affiliate of Höegh LNG Holdings now partnered with the infrastructure unit of US investment bank Morgan Stanley, has given the bank seats on the board.

The LNG fleet controlled by Höegh LNG Partners consists of five vessels, mostly floating storage and regasification units that operate under long-term charters.

Höegh said Steven Rees Davies, Sveinung J. S. Støhle (CEO), Andrew Jamieson and Morten W. Høegh had resigned as directors of Höegh LNG Partners.

However, the company said Støhle would continue for now in his role as CEO of the Partnership.

"On behalf of the Partnership, I would like to thank the resigning directors for their excellent service over the years and at the same time a very warm welcome to the new directors of the Board of the Partnership," stated Partnership CEO Støhle.

The outgoing directors were replaced by two Morgan Stanley people and two other appointees. The four new board members are John V. Veech, Alberto Donzelli, Carlo Ravizza and Tonesan Amissah.

Veech until May was Managing Director and Chairman of the Americas Region for MSIP.

Donzelli is a Managing Director and co-head of Europe for MSIP and previously worked in the investment banking businesses of Swiss banks UBS and Credit Suisse.

The third new board member is Carlo Ravizza, an Investment Director at Höegh Capital Partners. The fourth appointee is Tonesan Amissah, Managing Director of Appleby Global Services (AGS) Bermuda. She also serves as a director of Höegh LNG Holdings and a number of other companies, the majority of which are clients in Bermuda of AGS.


Atlas Copco
In LNG, experience matters.
Atlas Copco Gas and Process continuously innovates for the LNG industry. For over 50 years we've engineered advanced process equipment with intelligent aero design and a smaller footprint to maximize efficiency. We partner with you from day one, designing custom solutions including cryogenic high- or low-pressure BOG, SMR compressors, cryogenic expanders and Companders™ for liquefaction. Our mission is to help you to design process equipment that will protect your LNG value chain. With about 8,000 running reference machines in various industries, LNG professionals around the globe trust the proven industry-leading efficiency and reliability of Atlas Copco Gas and Process machinery.
Find out how Atlas Copco Gas and Process can help perfect the way you work at atlascopco-gap.com

Gazprom commissions huge gas processing plant linked to China supply, LNG fuel and helium

LNG News Editor

Gazprom has held a virtual commissioning ceremony for the first production Train at the Amur Gas Processing Plant, one of the world's largest and part of the "Power of Siberia" project comprising pipeline natural gas for China and LNG for trucks transporting liquid helium as a new Russian Far East export.

"The implementation of such an ambitious project in the area of gas processing has no parallel in the history of Russia's gas sector," stated Gazprom.

There were virtual and on-site events to start plant

Capacity

Russian President Vladimir Putin took part in the event along with Alexey Miller, the Gazprom Chief Executive, along with Vasily Orlov, Governor of the Amur Region.

The Amur GPP is located near the town of Svobodny in the Amur Region.

With a design processing capacity of 42 billion cubic metres of gas per year, the GPP is the main enterprise for advanced gas processing in Russia's Far East.

The plant receives multi-component gas via the Power of Siberia gas pipeline from the Chayandinskoye field (Yakutia) and later will also receive gas from the Kovyktinskoye field in the Irkutsk Region.

The power plant for the GPP was started up in April 2021 to supply process steam and electricity to the whole facility, which is nearing one-third completion.

The plant has five more production Trains to commission. While the first two lines start in 2021, the other four would be consecutively put in operation before the end of 2024.

"The Amur GPP is one of the most cutting-edge and high-tech production enterprises in the world," said Miller.

"Its construction schedule was extremely tight. Less than six years passed between the first pile and the start-up," he explained.

"An unprecedented amount of work was completed in that period and now the Amur Gas Processing Plant is onstream, and it has already become an integral part of Gazprom's unified production system," stated Miller.

In addition to natural gas and helium, the Amur GPP's commercial products will include ethane, propane, butane, and pentane-hexane fraction.

The pipeline gas supplies for China started in December 2019 via Gazprom's "Power of Siberia" trunkline from the Chayandinskoye gas field.

During 2020 the "Power of Siberia" supplies to China came to just 3.84 Bcm via the trunkline, which was less than the expected 5 Bcm in the first year.

Gazprom and China National Petroleum Corp. have signed a 30-year supply agreement for Russian gas to be supplied via the eastern route amounting to 38 Bcm per annum once incremental increases had been met over a period of five years.

The GPP will include the world's largest helium production facilities with an annual capacity of up to 60 million cubic metres.

Gazprom said a central link in the export system for commercial helium, one of the components extracted at Amur, will be a Logistics Centre for servicing thermally-insulated containers.

The Centre is being set up near the city of Vladivostok and will be the world's largest hub for delivering liquid helium to the global market.

US LNG and energy engineer McDermott and Sinopec unit to develop bring Uganda oil and gas

McDermott International, the US energy and LNG engineering firm, and China's Sinopec International Petroleum Service Corp, have received the conditional award of a $2-billion contract from France's TotalEnergies to give the East African nation of Uganda oil and natural gas output.

The McDermott-Sinopec Services consortium received a Letter of Award for the contract for the Tilenga project located in the onshore Lake Albert Basin of Uganda.

Tilenga joint venture is the center-piece of an oil and gas development effort to bring investments of over $10Bln to Uganda and neighbouring Tanzania. The Tilenga venture currently includes six oil fields and will feature 426 oil wells at full production.

"The projects for the development of the oil and gas resources of the Lake Albert region and a cross-border pipeline are situated in a sensitive social and environmental context that requires special measures for the environment and the rights of the local communities," explained TotalEnergies.

The Lake Albert region in Uganda has major oil and gas resources, estimated at over one billion barrels of oil equivalent.

Uganda has chosen to develop them under the Tilenga project, operated by TotalEnergies and with the participation of China National Offshore Oil Corp. and the Uganda National Oil Company.

Production will be delivered to the Tanzanian port of Tanga by a cross-border pipeline, built and operated by the East African Crude Oil Pipeline (EACOP) company.

"This important step further strengthens years of successful collaboration with TotalEnergies on a wide portfolio of world-class projects in the Offshore, Petrochemicals and LNG segments, where TotalEnergies is a major stakeholder," explained Samik Mukherjee, McDermott's Group Senior Vice President for Projects.

The Tilenga project will be led from McDermott's UK offices located west of London and Sinopec's office in Yangzhou in China's Jiangsu province, north of the Yangtze River.

The consortium will provide engineering, procurement, construction and commissioning (EPCC) services for the development of an onshore oil field that will generate up to 200,000 barrels per day.

It will consist of 31 well pads connected to a central processing facility (CPF) via buried flowlines.

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