LNG Shipping News

AN LNG JOURNAL TITLE ON LNG CARRIERS

5 January 2023

Japan to buy Omani LNG

Last week, Oman LNG signed an agreement to export 2.35 mill tonnes of LNG annually to Japan's largest buyer, JERA, and trading houses Mitsui & Co and Itochu Corp.

According to the Oman News Agency, the deliveries, which are due to start in 2025, will last for between five and 10 years.

The agreement was signed during a visit to Oman by Japanese Trade and Industry Minister, Yasutoshi Nishimura.

During a meeting between the Omani head of state, Sultan Haitham bin Tariq Al-Muazzam and Nishimura, co-operation between the two countries in various fields was discussed.

According to Japanese officials, the country currently imports about 1.9 mill tonnes of LNG, amounting to about 2.6% of the total, from Oman.

JERA has confirmed that it has signed a term sheet for an SPA with Oman Liquefied Natural Gas (Oman LNG) for up to 12 cargoes, or 0.8 mill tonnes per year, on a free-on-board (FOB) basis for 10 years starting in 2025. ■

Oman's Qalhat in Sur loading terminal seen with the 3,000th cargo last November

Venture Global signs Japanese SPA

Venture Global LNG has signed a long term sales and purchase agreement (SPA) with Japan's INPEX Corp.

This SPA covers the purchase of 1 mill tonnes per annum of LNG for 20 years.

Under the agreement, subsidiary INPEX Energy Trading Singapore will purchase the LNG from CP2 LNG, Venture Global's third project, which is expected to commence construction in 2023.

INPEX has joined other CP2 LNG customers, including ExxonMobil, Chevron, EnBW and New Fortress Energy.

"Venture Global is delighted to welcome INPEX, Japan's largest gas exploration and production company, as a customer at CP2 and expand our customer base in Asia," said Venture Global CEO, Mike Sabel. "We are honoured to provide security of LNG supply to this key market and look forward to supporting INPEX as it delivers our competitive lower carbon energy to the region."

"This agreement will enable the INPEX Group to procure LNG from the US on a long-term basis, expand its LNG supply capacity, and diversify its supply sources to further contribute to the stable supply of energy," added INPEX's Executive Officer and Senior Vice President of Global Energy Marketing, Hiroshi Kato. ■

SHIPPING NEWS AGENDA

US export authorisation for Mexican LNG plants

Sempra Infrastructure's Mexican developments, Energía Costa Azul (ECA LNG) and Vista Pacifico LNG, have received authorisation to re-export US-sourced LNG to non-Free Trade Agreement (FTA) nations.

This authorisation from the US Department of Energy (DoE) was described as an important milestone for the two development projects.

"Advancing new infrastructure investments is critical to supporting the energy needs of America's allies, and we are grateful for the leadership of the Biden Administration, US Energy Secretary, Jennifer Granholm, and various Congressional stakeholders—including Senators Joe Manchin, Ted Cruz and John Cornyn," said Justin Bird, Sempra Infrastructure CEO.

"These export projects are expected to support efforts across the Indo/Pacific region to diversify energy supplies, while transitioning away from coal in power production. They are also expected to help strengthen US trading relationships, as well as create new jobs and boost the US and Mexico economies," he added.

Under the DoE permits, Vista Pacifico LNG is authorised to re-export up to 200 bill cu ft per year of LNG from US-sourced natural gas from the project under development in Topolobampo, Sinaloa to any country with which the US does not have an FTA requiring national treatment for trade in natural gas.

Vista Pacifico LNG is planned as a mid-scale facility with around 3.5 mill tonnes per annum of export capacity. Sempra Infrastructure is advancing its development in collaboration with Mexico's Federal Electricity Commission (CFE).

The authorised export volumes of ECA LNG Phase 2 were also increased by the DoE, allowing it to re-export up to 636 bill cu ft per year of LNG from US-sourced natural gas from the proposed project in Ensenada, Baja California to non-FTA nations.

Port Arthur LNG will also supply LNG to RWE

Both permits are applicable for the period beginning on the date of first commercial re-export through December, 2050.

The proposed ECA LNG Phase 2 is expected to include two trains and one LNG storage tank and produce about 12 mill tonnes per annum of export capacity.

This project received non-FTA export authorisation in 2019 and is currently under construction with commercial operations expected to come online in 2025.

Development of both ECA LNG Phase 2 and Vista Pacifico LNG is contingent upon completing the required commercial agreements, securing all necessary permits, obtaining financing, and reaching a final investment decision (FID), among other factors, Sempra said.

Once in operation, the plants will allow LNGCs to cut sailing times to Asian destinations, compared to loading in the US Gulf, as a Panama Canal transit will be avoided.

Long term SPA

Sempra Infrastructure has also signed a long-term sale and purchase agreement (SPA) with RWE Supply & Trading, a subsidiary of German energy company RWE, to supply of around 2.25 mill tonnes per annum of LNG.

The LNG will be supplied from the Port Arthur LNG Phase 1 project under development in Jefferson County, Texas. It will be delivered on a free-on-board (FOB) basis for 15 years.

In addition, the agreement provides a framework to explore ways to lower the carbon intensity of LNG produced from the project through GHG emission reduction, mitigation strategies and a continuous improvement approach.

Sempra Infrastructure earlier announced it had entered into long-term agreements with ConocoPhillips, INEOS and ENGIE for the sale and purchase of around 7.3 mill tonnes per annum of LNG from the Phase 1 project.

The company also said that it is focused on completing the remaining steps necessary to achieve its goal of making a final investment decision (FID) for the project's Phase 1 in the first quarter of 2023, with first cargo deliveries expected in 2027.

Port Arthur LNG Phase 1 project is permitted and expected to include two natural gas liquefaction trains and LNG storage tanks and associated facilities capable of producing, under optimal conditions, up to about 13.5 mill tonnes per annum of LNG.

A similarly sized Phase 2 project is also competitively positioned and under active marketing and development, Sempra said. ■

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UK bans Russian gas imports

The UK Government has announced that from the beginning of this year, imports of Russian gas are now banned.

However, the EU has not agreed a ban on Russian gas, but has introduced policies aimed at moving away from being dependent on it.

In 2021, Russian imports made up 4% of gas used in the UK, 9% of oil and 27% of coal. In 2021, imports of gas, oil and coal from Russian to the UK were worth a combined £4.5 bill, the Government advised.

In October 2022, according to UK trade statistics, it imported £2 mill of oil, but no coal or gas from Russia, which was the seventh month in a row with no Russian gas imports.

In June, 2022 the UK imported no fossil fuel from Russia for the first time since 2000 (when this data became available). Overall energy imports from Russia in the year to October, 2022 were £3.36 bill.

According to Eurostat, Russia supplied 23% of EU gas imports in the second quarter of 2022, down from 40% in 2021. It also supplied 21% of EU oil imports, down from 26% in 2021. ■

Grain LNG will no longer receive Russian cargoes

NextDecade agrees new and extended SPAs

NextDecade Corp has increased the sale and purchase agreement (SPA) with Chinese subsidiary, ENN LNG (Singapore).

Under the 20-year SPA, ENN will now purchase 2 mill tonnes per annum of LNG an 0.5 mill tonnes increase from the original SPA announced last year.

All volumes of LNG are indexed to Henry Hub and will be supplied from the first three trains at Rio Grande LNG (RGLNG) on a free-on-board (FOB) basis.

In addition, the company announced the execution of an SPA with Portuguese energy company Galp Trading (Galp), for the long-term supply of LNG from RGLNG.

Under the 20-year SPA, Galp will purchase 1 mill tonnes per annum (MTPA) of LNG indexed to Henry Hub on a free-on-board (FOB) basis.

"We are honoured to have Galp, one of Portugal's largest energy companies and a key player in the Iberian Peninsula, as our customer," said Matt Schatzman, NextDecade's Chairman and CEO. "We look forward to helping Galp, as well as other European companies and their customers, meet their energy needs by offering a lower-cost, reliable source of LNG with lower carbon-intensity."

NextDecade said that it is currently targeting a positive final investment decision (FID) on the first three trains of the RGLNG export project during the first quarter of this year, with FIDs of the remaining trains to follow. ■

NextDecade's proposed Rio Grande LNG terminal

Canada's Ksi Lisims gets export go ahead

Canada's Ksi Lisims LNG project has received the Canadian Energy Regulator's (CER) approval for a 40-year license to export LNG.

An export license is granted when the CER is satisfied that the natural gas supply required to meet a project's export needs are surplus to the foreseeable Canadian demand requirements, the developer explained.

The license will be issued following approval of the Canadian Minister of Natural Resources.

Ksi Lisims LNG is a project involving the Nisga'a Nation and Rockies LNG, a partnership of Canadian natural gas producers, together with Western LNG, a Texas-based developer of LNG export facilities.

Canada's Nisga'a Nation is a self-governing, modern treaty Nation with significant, defined control of and rights over its lands. The nation's sites are claimed to be ideally situated along the Canadian west coast with direct access to overseas markets, close proximity to approved natural gas pipeline routes and prime locations for the development of LNG projects.

Rockies LNG Partners was formed to develop LNG market access opportunities on the west coast of British Columbia and collectively, the partners produce about 20% of Canada's natural gas. ■

Eni agrees second FLNG for West Africa

Eni has signed a contract with China-based Wison Heavy Industry for the construction and installation of an FLNG.

To be deployed offshore Republic of Congo, the FLNG will have a capacity of 2.4 mill tonnes per annum and will be 380 m long and 60 m wide.

The unit will be anchored in a water-depth of around 40 m and will be able to store over 180,000 cu m of LNG and 45,000 cu m of LPG.

Preliminary activities have already started, with long lead items ordered and the steel cutting of cryogenic tanks occurring on 20th December.

This unit will be the second FLNG to be deployed in the Republic of Congo - the first being 'Tango' FLNG (0.6 mill tonnes per annum) - with LNG production expected to begin in 2023.

With the second FLNG, overall LNG production capacity on the Marine XII development will reach 3 mill tonnes per year (over 4.5 bill cu m per year) in 2025.

Both initiatives are part of Marine XII gas valorisation plan, in line with Eni's strategy to leverage gas equity, the Italian energy giant said. ■

Petronas takes FID on Sabah project

Malaysian state-owned energy company, Petronas has taken a final investment decision (FID) for a nearshore LNG plant at Sabah.

The engineering procurement, construction and commissioning (EPCC) contract for the project was awarded to the winner of a dual Front End Engineering Design (FEED) tender held in October last year.

Malaysia's Chief Minister, Datuk Seri Hajiji Mohd Noor, said that the LNG project was a step in the right direction as the Government continues to pursue more deals to get additional revenue via equity participation for Sabah.

"The nearshore LNG project is an outcome of a joint study between the state government and Petronas to identify optimal gas monetisation options in order to maximise long-term economic spin-offs that will benefit the people of Sabah," he said in a statement.

The project will be located at the Sipitang Oil and Gas Industrial Park.

Designed to produce 2 mill tonnes per annum of LNG, the facility is scheduled to reach commercial operations by the second half of 2027.

Petronas COO and Executive Vice President and CEO of Gas Business, Adnan Zainal Abidin, said: "As we transition towards a lower carbon future, Petronas continues to advocate for greater use of natural gas.

"We will leverage our technological expertise for the development of the project to unlock gas resources in an optimised and environmentally friendly manner.

"Petronas remains resolute in supporting the Sabah government's aspiration for its oil and gas industry.

"The development of the facility under the Sabah gas master plan will strengthen the position of the state and Malaysia as an attractive natural gas hub, contributing to the mutual prosperity of Sabah and the nation," he said. ■

NEWS NUDGE

Freeport LNG reports further delay

Freeport LNG has conceded that it will not be able to restart its LNG liquefaction facility until the second half of this month.

The company claimed that it continued to make notable progress on its path towards the restart operations.

As of 23rd December, the last update, reconstruction work necessary to commence initial operations was substantially complete, and the company was submitting responses to the last remaining questions included in the US Federal Energy Regulatory Commission's (FERC) 12th December data request.

Given the time needed for the regulatory agencies to review the company's responses and to seek any necessary clarification, Freeport LNG said it would delay the planned restart.

'Exemplar' arrives at Inkoo

On 28th December, the FSRU 'Exemplar' was moored at Inkoo, Finland.

To be operated by Gasgrid Finland, the LNG floating terminal project will secure the supply of gas to industry, energy production and households as well as safeguard Finland's security of supply from winter 2023 onwards.

According to Gasgrid, utilising an FSRU was the fastest and most effective solution to phase out dependency on Russian gas in Finland and to ensure the continuity of Finnish gas supplies in different scenarios far into the future.

The FSRU project will also enable gas to be delivered to the Baltic states, including Poland, through the Baltic-connector pipeline.

Gasgrid has chartered 'Exemplar' for 10 years at a total cost of €460 mill. ■

Papua extends gas fields' operations to feed Tangguh

Indonesia has extended a production sharing contract (PSC) with BP and its partners for three working fields in West Papua for another 20 years, the company confirmed.

These fields supply LNG to the Tangguh plant and the extension would allow BP and its partners to operate the fields until 2055, BP said.

BP is seeking to increase Tangguh's production capacity from 7.6 mill tonnes per annum to around 11.4 mill tonnes by adding a third train, which is expected to come onstream in March, 2023, Indonesia's upstream regulator SKK Migas said earlier last year.

Indonesia usually extends a PSC around two to 10 years before it expires, but BP needed to secure a longer contract to guarantee its long-term investment plan, according to Dwi Soetjipto, SKK Migas Chairman.

"In order to maintain production for LNG Train 3, BP is committed to conducting further exploration activities at several sites ... BP also committed to preparing a 2 x 90 mill cu m per day gas pipe to support industry development in Papua," he said.

If there is no new exploration, it was thought that Tangguh's output will drop before 2030.

Indonesian Energy minister, Arifin Tasrif said Tangguh's gas production is needed to supply the country's increasing energy demand as it will rely on gas while transitioning to cleaner energy.

Separately, Indonesia also said last month that development of BP's Ubadari field, also in West Papua, and its carbon capture, utilisation and storage (CCUS) project would be included in the country's list of National Strategic Projects. ■

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- Examining Repurposing Possibilities For Either Hydrogen, Ammonia, Or Methanol To Ensure The Investment In New Onshore Import Facilities Is A Long-Term Investment

GTT to stop dealing with Russia

GTT has announced that it is to cease working in Russia.

This decision follows an in-depth analysis of European sanction packages, notably those prohibiting engineering services with Russian companies.

GTT is involved in Russia in the tank design of 15 icebreaking LNGCs under construction by the Zvezda Shipbuilding Complex (Zvezda), as well as in the design of three GBS' for Saren.

As of 1st October, 2022, revenues of €74 mill remained to be recognised for the icebreaking LNGCs by 2025 and €12 mill for the GBS' by 2027 - a total exposure representing less than 6% of the order book, GTT explained.

On 8th January, 2023, the contract with Zvezda will be suspended and GTT's involvement will be limited, on the two most advanced LNGCs, to ensure the safety of the projects and the integrity of the technology, in compliance with the international sanctions in force.

With regards to the GBS projects, the terms of GTT's departure are currently being finalised.

These elements will have a financial impact mainly from this year. In the future, GTT's orderbook will no longer include projects in Russia. In addition, from 2023 onwards, the Group's annual targets will exclude the revenues and EBITDA that would be generated by the services in progress in Russia.

Other orders under construction in Asian shipyards, relating to six icebreaking LNGCs and two FSUs, are intended specifically for Russian Arctic projects. To date, these projects are proceeding normally.

As of 1st October, 2022, these orders represented a total revenue of €31 mill for GTT, to be recognised by 2024. Finally, eight conventional LNGCs ordered by international shipowners, also under construction in Asian shipyards and intended for Russian Arctic projects, will be able to operate in all types of conditions.

The Group remains sensitive to the evolution of the situation and is taking all necessary measures to protect its employees and stakeholders, in compliance with international sanctions, GTT said.

GTT also announced that it has received an order from the Chinese shipyard Hudong-Zhonghua Shipbuilding (Group) for the tank design of six new LNGCs, on behalf of several Asian shipowners.

The tanks of the 174,000 cu m LNGCs will be fitted with GTT's membrane containment system NO96 Super+.

Their delivery is scheduled for between the third quarter of 2027 and the fourth quarter of 2028. ■

Snøhvit to get an upgrade

Equinor's Snøhvit partners are to invest NOK13.2 bill in an upgrade of the Hammerfest LNG export plant (HLNG) at Melkøya.

This project involves gas compression and electrification, which will secure HLNG's future, Equinor said.

Onshore compression will provide enough gas flow to extend the plant's production and maintain high gas exports beyond 2030.

Electrification will reduce CO2 emissions by around 850,000 tonnes per year.

"Snøhvit Future will strengthen Norway's position as a reliable and long term supplier of LNG to Europe. Electrification will allow us to deliver this gas with close to zero greenhouse gas emissions from production. The project will secure long term operations and gas exports from Melkøya towards 2050," explained Geir Tungesvik, Equinor's executive vice president for Projects, Drilling & Procurement.

Three large modules will be installed at the plant, which will also be subject to extensive modifications. ■

Third ADNOC LNGC earmarked for FSU project

ADNOC Logistics & Services (ADNOC L&S) and Atlantic Gulf & Pacific International Holdings (AG&P), have signed a third FSU charter agreement.

This latest contract involves the utilisation of ADNOC's LNGC 'Ghasha'.

Under the terms of the agreement, once converted to an FSU, she will be utilised at AG&P's LNG import terminal in India, which will be commissioned in the second half of 2024.

The agreement, valid for 11 years with the option of a four-year extension, adds to the previously agreed two similar contracts for ADNOC FSUs in India and the Philippines.

ADNOC's LNGC 'Ghasha' will become the third FSU leased out by the energy company

Capt Abdulkareem Al Masabi, ADNOC L&S CEO, said: "This agreement with AG&P builds on a phenomenal period of global expansion for ADNOC L&S as we focus on growth, diversification and unlocking new revenue streams.

"ADNOC L&S is in the midst of a major renewal project of its LNG fleet and, as we do so, we are re-purposing our older vessels to extend their life, generating incremental value and new revenue streams," he explained.

The FSU's operation and maintenance will be undertaken by ADNOC, while the conversion will be undertaken by GAS Entec, an AG&P subsidiary.

Once commissioned, the FSU will be moored alongside a regasification unit, manufactured by the subsidiary. The integrated terminal will have an initial capacity of 5 mill tonnes per annum.

Joseph Sigelman, Chairman & CEO, AG&P Group, said: "AG&P is thrilled to work closely with ADNOC L&S to continue to bring energy to important markets. We are also proud of AG&P's Gas Entec business, which has become a world leader in LNG technology. The ADNOC L&S FSU, plus the regasification unit, is a powerful combination for bringing gas to new markets."

'Ghasha' was built in Japan and is a Moss-type LNGC with a capacity of around 138,000 cu m. ■

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Lubmin receives first test cargo

The 10,000 cu m small scale LNGC 'Coral Furcata' has delivered the first LNG cargo to the Deutsche Regas FSRU terminal at Lubmin.

The LNG was loaded from the FSU 'Hispania Spirit', which is anchored off Rügen. It is being used for trials on the FSRU 'Neptune' moored at Lubmin.

At sea, the processes between the anchored FSU and the SLNGCs are being trialled together with the manoeuvring of the LNG feeders in Lubmin, as well as the interaction with the tug crews.

Beforehand, intensive simulation was carried out at NAUTITEC in Leer. Interfaces between the FSRU and the shore connection, plus the feeder ships must be prepared and tested, Deutsche Gas explained.

In addition, Boluda Towage has started tug services at Lubmin for the FSRU and the feeders.

Due to Lubmin's narrow harbour basin, large LNGCs are not able to come alongside the FSRU. Therefore, the FSU is anchored outside the port and three SLNGCs will provide a shuttle service between the FSU and the FSRU.

Prior to the arrival of the FSRU 'Neptune', Boluda Towage and NAUTITEC investigated how to safely manoeuvre the 'Neptune' into the harbour basin with a manoeuvring space of < 2 m.

Weeks of intensive simulation training followed, during which, Boluda tug masters were trained with a specialised towing setup.

Based on this intensive simulation training programme, the Lubmin port authorities approved the specified setup for the safe towage operations of the 'Neptune' into Lubmin.

Thanks to the close co-operation with all the the parties involved, ie, Deutsche ReGas, NAUTITEC, local port authorities and pilots, the German crew of Boluda Towage were able to make the necessary preparations.

Together with NAUTITEC a more specified simulation training will follow for the towing of the smaller shuttle LNGCs, which will be carried out by four Boluda tugs. ■

Höegh LNG's FSRU 'Neptune' is undergoing trials at Lubmin

NEWS NUDGE

Ships - Newbuildings and charters

Last month, Mitsui OSK Lines (MOL) and GAIL (India) signed a timecharter contract for a newbuilding LNGC.

This will be the second newbuilding MOL LNGC to serve GAIL. The parties signed a contract for the first vessel in 2019.

The first vessel was chartered to GAIL through a wholly owned MOL subsidiary, from 2021. Since then, MOL and GAIL have decided to jointly own the vessel by transferring part of the wholly owned MOL subsidiary's shares to the Indian LNG importer.

The latest vessel is a 174,000 cu m membrane type LNGC fitted with an X-DF engine and is being built by Daewoo. She will start operating for GAIL under the charter this year.

Elsewhere, two LNGCs have been ordered at Hyundai Samho for Omani shipping company, Asyad Shipping, for a total of Won650 bill (about $255 mill per ship).

The 174,000 cu m vessels will be delivered in 2026.

China Merchants Heavy Industry (CMHI) has signed a contract to build four 180,000 cu m LNGCs, plus four options, for an undisclosed European owner, believed to be Celsius.

Four firm orders and two options for two vessels each were agreed, which will be built at Jiangsu, marking the shipyard's entry into LNGC shipbuilding.

It has been reported that the vessels were jointly designed by Deltamarin and CMHI's Haimen production base in Jiangsu.

Each LNGC will be fitted with a GTT Mark III Flex system and the first ship is due for delivery at the beginning of 2026.

Last October, Jiangsu signed a technical assistance and license agreement to enable the yard to construct vessels with GTT membrane technologies.

Market sources thought the price per ship was around $235 mill.

Dynagas LNG Partners has signed a new timecharter agreement with Equinor for the 2013-built ice class LNGC 'Arctic Aurora' in direct continuation.

The 'Arctic Aurora' is expected to be delivered to Equinor in September, 2023 in direct continuation of her current employment for about another three years, adding around $116.5 mill to the Partnership's existing contracted revenue backlog.

CEO, Tony Lauritzen, commented: "We are very pleased to enter into this new agreement with Equinor, with whom the 'Arctic Aurora' has been employed since its delivery in 2013, reflecting our long-standing relationship with Equinor and the outstanding operational performance of the 'Arctic Aurora' and our manager throughout the years."

The Hyundai Heavy Industries Group has officially changed its name to Hyundai HD, according a regulatory filing. ■

ABS approves SHI's new BOG technology

Samsung Heavy industries (SHI) has received a 'statement of fact' (SOF) approval from ABS for its boil-off gas (BOG) recovery system, BReS.

BReS is a heat exchange solution that can reliquefy and collect excess BOG using clod heat from LNG tanks instead of high pressure compressors.

In addition to reducing costs, BReS results in zero CO2 emissions.

Today's LNG-powered vessels use high pressure compressors, most of which are made overseas to remove the BOG through forced combustion.

"When BReS is installed on a containership operating between Europe and Asia, it will reduce about 30 tonnes of LNG fuel and 60 tonnes of CO2 emissions," an SHI official told South Korean newswires. ■

SHI's boil-off gas solution has received an approval from ABS

NEWS NUDGE

First cargo arrives at Wilhelmshaven

On 3rd January, Uniper imported Germany's first full cargo of LNG to the new Wilhelmshaven terminal.

The LNGC 'Maria Energy', owned by Tsakos Energy Navigation, loaded a full cargo of 170,000 cu m at Venture Global's Calcasieu Pass liquefaction facility on 19th December, 2022.

Flex LNG issues shares

During December, Flex LNG issued 409,741 ordinary shares pursuant to the Equity Distribution Agreement announced last November.

Following the latest distribution, Flex LNG has an issued share capital of 54,520,325 ordinary shares, each with a par value of $0.10.

They were issued at an average gross price of $36.09 per share.

Gastech to address climate technologies

At the forthcoming Gastech 2023 exhibition to be held in Singapore, a Climatetech zone will be included.

This area will include advanced technologies, such as carbon capture, utilisation and storage, alongside other technologies, such as artificial intelligence.

Agile and innovative start-ups are adding value by solving emission related challenges across the value chain, the organisers said.

Exhibiting companies will be able to demonstrate advanced climate technologies, alongside global industry innovators and pioneering start-ups. They will have an opportunity to show how their technologies remove or mitigate emissions across the energy value chain.

Climate technologies will have a crucial role to play in actively reducing greenhouse gas emissions. In 2050, almost 50% of required CO2 emissions reductions will come from widespread use of technologies that are still under development today, according to the International Energy Agency (IEA).

Delivering new climate technologies across the entire energy value chain will be critical to the world's de-carbonisation efforts, Gastech's organisers said. ■

LNG rate assessments

Spot market (155,000-165,000 cu m)

Region	This week	Change*
East of Suez	$150,000	- $5,000
West of Suez	$120,000	- $30,000
12 mos T/C	$171,000	- $2,000

Since last report (22/12/22)

Source: Fearnleys (04/01/23)

Monthly Large LNGC Values*

Newbuildings (174,000 cu m)	$265.51 mill
Five years old (174,000 cu m)	$213.39 mill
Total Fleet (559 ships)	$82.28 bill
Orderbook (297 ships)	$78.23 bill

Source: VesselsValue (04/01/23)

*The above is updated each month courtesy of VesselsValue

Uniper and TES to develop large import terminal

German energy supply company, Uniper and TES, a green energy company, are to co-operate with Niedersachsen Ports (NPorts), the largest operator of public seaports in Germany.

On the sidelines of the opening ceremony for the first German LNG terminal in Wilhelmshaven last month, the three companies signed an agreement for a new large joint import terminal with up to six berths.

In parallel, Uniper will conduct technical studies to enable it to import around 2.6 mill tonnes of green ammonia per year.

This capacity, plus the 1 GW electrolysis plant for hydrogen production planned as part of the Uniper Green Wilhelmshaven project could supply around 300,000 tonnes of green hydrogen, equivalent to 10-20% of the demand expected for 2030 throughout Germany.

TES plans to take FID in 2023, with the goal of starting the first phase of Europe's largest import terminal in 2026. The terminal is expected to have a capacity of 20 million tonnes of LNG and eNG.

The company aims to begin importing the first eNG by the end of 2025 or early 2026, and to increase capacity to 5 mill tonnes by 2030.

Large investment

This new jetty in front of the Voslapper Groden will probably require investment funds of around €500 mill. The financing still has to be clarified, the companies said. It will make Wilhelmshaven the largest energy hub in Germany and will supply green energy as hydrogen for Germany in the future.

Olaf Lies, Minister for Economics, Labour and Transport of Lower Saxony, said: "Lower Saxony is an energy hub for and will remain so in the future. Starting as early as 2026, we will develop the site of Wilhelmshaven as one of the central gates for green and clean energy for Germany.

"Only with additional terminals will we be able to continue to guarantee Germany's energy supply security. So, with this project, TES and Uniper are making a significant contribution to Germany's energy transition.

"We want to maintain the pace presented by Uniper, OGE and our approval authorities at the first LNG terminal for further projects - that is what we call the 'Neue Deutschlandgeschwindigkeit'," he said.

Christian Meyer, Lower Saxony's Minister for Environment, added: "I am very pleased that TES, Uniper and NPorts are planning and building a new jetty for the landing of regeneratively generated 'green gases'. This investment makes Wilhelmshaven the most important hub for climate-neutral gases in Germany. Now it's time to take the momentum from the construction of the pier at the UVG bridge for the (FSRU) 'Esperanza' project to achieve climate neutrality as quickly as possible.

"Because we cannot and do not want to make any compromises when it comes to climate protection, we have no more time to lose." he warned.

Dr Holger Kreetz, Uniper's COO Asset Management, commented: "We at Uniper will expand our leading role in the import of energy sources with our (patented) Green Wilhelmshaven lighthouse project and take a major step towards the de-carbonisation of our gas business.

"After the successful construction of the LNG terminal in record time, we at Uniper are now fully dedicated to the construction of the import terminal for green ammonia and the construction of the gigawatt of electrolysis to supply our customers with green hydrogen," he said.

Marco Alverà, TES CEO, also commented: " We are thrilled to announce our partnership with Uniper and NPorts to speed up the development of our Green Energy Hub. By converting sun and wind into sustainable eNG (electric natural gas) through the combination of green hydrogen and circular CO2, and utilising existing infrastructure, we will be able to deliver green, secure energy to leading European industrial companies.

"This will not only assist these companies in their transition to green energies, but also allow them to maintain competitiveness while significantly reducing carbon emissions," he said. ■

> **"We at Uniper will expand our leading role in the import of energy sources with our (patented) Green Wilhelmshaven lighthouse project and take a major step towards the de-carbonisation of our gas business"**
>
> *- Dr Holger Kreetz, COO Asset Management, Uniper*

NEWS NUDGE

JBIC co-finances Senegal FSRU

The Japan Bank for International Cooperation (JBIC) has signed a loan agreement for up to about $35 mill with Senegal LNGT Co Ltd (SLNG) for an FSRU project.

It is co-financed with MUFG Bank, which together brings the total amount to about $71 mill.

SLNG is incorporated by Mitsui OSK Lines (MOL).

The FSRU will be used to regasify LNG to generate electricity on an LNG powership, which will be sold to Société nationale d'électricité du Sénégal, the state-owned power company.

Japan's Government has endorsed, in its 'Basic Plan on Ocean Policy', the strengthening of the international competitiveness of Japanese marine industries, and advocated in a roadmap, the improvement of Japan's technical capability and productivity in a wide range of marine development sectors.

Supporting MOL in maintaining and improving its know-how in FSRU operations and maintenance will contribute to the Japanese major improving its international competitiveness in the marine development sectors, JBIC claimed.

As Japan's policy-based financial institution, JBIC will continue to support domestic companies' overseas business expansion plans, including in Africa, by drawing on its various facilities and schemes for structuring projects, and by performing its risk-assessment function, it said. ■

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WORLD LNG CARRIER ORDERBOOK

Name	Owners	Yard	Capacity	Propulsion	Delivered	Delivery
Asterix I	Capital Gas	Hyundai Heavy	174000	XDF	01/11/2022	Q4, 2022
Hudong-zhonghua H1829a	CSSC	Hudong-Zhonghua	174000	XDF	01/01/2024	Q1, 2024
Hudong-zhonghua H1830a	CSSC	Hudong-Zhonghua	174000	XDF	01/04/2024	Q2, 2024
Alexey Kosygin	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/03/2023	Q1, 2023
Pyotr Stolypin	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/09/2023	Q3, 2023
Sergei Witte	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/10/2023	Q4, 2023
Zvezda 044	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/11/2023	Q4, 2023
Zvezda 045	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/12/2023	Q4, 2023
Seri Damai	MISC	Samsung	174000	XDF	01/01/2023	Q1, 2023
Seri Daya	MISC	Samsung	174000	XDF	01/03/2023	Q1, 2023
Samsung 2315	SinoKor	Samsung	173400	ME-GA	01/12/2023	Q4, 2023
Samsung 2316	SinoKor	Samsung	173400	ME-GA	01/11/2022	Q4, 2022
Samsung 2317	SinoKor	Samsung	173400	ME-GA	01/12/2022	Q4, 2022
Samsung 2318	SinoKor	Samsung	173400	ME-GA	01/03/2023	Q1, 2023
Lng Prosperity	JP Morgan	Hyundai Heavy	174000	XDF	01/12/2022	Q4, 2022
Kun Lun	ULT	Hudong-Zhonghua	174000	XDF	01/04/2023	Q2, 2023
Wu Dang	ULT	Hudong-Zhonghua	174000	XDF	01/01/2023	Q1, 2023
Lng Harmony	JP Morgan	Hyundai Heavy	174000	XDF	01/08/2023	Q3, 2023
Orion Jessica	JP Morgan	Hyundai Heavy	174000	XDF	01/07/2023	Q3, 2023
El Ferrol Knutsen	Knutsen	Hyundai Samho	174000	XDF	01/05/2023	Q2, 2023
Extremadura Knutsen	Knutsen	Hyundai Samho	174000	XDF	01/06/2023	Q2, 2023
Daewoo 2517	MOL, COSCO	DSME	172500	TFDE - Azipod	01/09/2023	Q3, 2023
Daewoo 2518	MOL, COSCO	DSME	172500	TFDE - Azipod	01/10/2023	Q4, 2023
Daewoo 2519	MOL, COSCO	DSME	172500	TFDE - Azipod	01/12/2023	Q4, 2023
Zvezda 046	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/08/2024	Q3, 2024
Zvezda 047	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/09/2024	Q3, 2024
Zvezda 048	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/10/2024	Q4, 2024
Zvezda 049	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/11/2024	Q4, 2024
Zvezda 050	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/12/2024	Q4, 2024
Zvezda 051	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/08/2025	Q3, 2025
Zvezda 052	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/09/2025	Q3, 2025
Zvezda 053	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/10/2025	Q4, 2025
Zvezda 054	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/11/2025	Q4, 2025
Zvezda 055	Smart LNG	Zvezda SSK	172600	TFDE - Azipod	01/12/2025	Q4, 2025
Sm Golden Eagle	Korea Line	Hyundai Heavy	174000	XDF	01/09/2025	Q3, 2025
Sm Kestrel	Korea Line	Hyundai Heavy	174000	XDF	01/10/2023	Q4, 2023
Grazyna Gesicka	Knutsen	Hyundai Heavy	174000	XDF	01/06/2023	Q2, 2023
Lech Kaczynski	Knutsen	Hyundai Heavy	174000	XDF	01/12/2022	Q4, 2022
Samsung 2425	Maran Gas Maritime	Samsung	174000	XDF	01/07/2023	Q3, 2023
Hyundai Samho 8100	Knutsen	Hyundai Samho	174000	ME-GA	01/11/2024	Q4, 2024
Orion Sky	JP Morgan	Hyundai Heavy	174000	XDF	01/11/2024	Q4, 2024
New Brave	Pan Ocean	Hyundai Heavy	174000	XDF	01/09/2024	Q3, 2024
New Nature	Pan Ocean	Hyundai Heavy	174000	XDF	01/10/2024	Q4, 2024
New Apex	Pan Ocean	Samsung	174000	XDF	01/04/2023	Q2, 2023
Energy Fidelity	Alpha Gas	Hyundai Samho	174000	XDF	01/08/2023	Q3, 2023
Dapeng Princess	Shenzhen Gas	Hudong-Zhonghua	79960	XDF	01/01/2023	Q1, 2023
Hyundai Ulsan 3294	Hyundai LNG Shipping	Hyundai Heavy	174000	XDF	01/02/2024	Q1, 2024
Hyundai Ulsan 3295	Hyundai LNG Shipping	Hyundai Heavy	174000	XDF	01/06/2024	Q2, 2024
Hyundai Ulsan 3296	Hyundai LNG Shipping	Hyundai Heavy	174000	XDF	01/07/2024	Q3, 2024

DFDE = dual fuel diesel engines, STRH = steam turbine reheat / ultra steam turbine, MEGI = marine electric gas injection, DRL = slow speed diesel, FSRU = vessel with regas capacity, FLNG = floating LNG production unit
Data last updated = 8 December 2022

Name	Owners	Yard	Capacity	Propulsion	Delivered	Delivery
Hyundai Samho 8139	Knutsen	Hyundai Samho	174000	XDF	01/10/2023	Q4, 2023
Jiangnan H2637	Jovo Energy	Jiangnan	79800	XDF	01/12/2023	Q4, 2023
Samsung 2473	Maran Gas Maritime	Samsung	174000	XDF	01/09/2024	Q3, 2024
Samsung 2474	Maran Gas Maritime	Samsung	174000	XDF	01/09/2024	Q3, 2024
Daewoo 2521	Hyundai LNG Shipping	DSME	174000	MEGI	01/09/2023	Q3, 2023
Clean Destiny	Dynagas	Hyundai Heavy	200000	ME-GA	01/11/2023	Q4, 2023
Clean Future	Dynagas	Hyundai Heavy	200000	ME-GA	01/03/2024	Q1, 2024
Clean Resolution	Dynagas	Hyundai Heavy	200000	ME-GA	01/09/2023	Q3, 2023
Clean Vitality	Dynagas	Hyundai Heavy	200000	ME-GA	01/02/2024	Q1, 2024
MOL Coral	MOL	DSME	174000	ME-GA	01/10/2023	Q4, 2023
Amore Mio I	Capital Gas	Hyundai Heavy	174000	ME-GA	01/10/2023	Q4, 2023
Axios II	Capital Gas	Hyundai Heavy	174000	ME-GA	01/12/2023	Q4, 2023
Hyundai Samho 8106	Alpha Gas	Hyundai Samho	170520	XDF	01/04/2024	Q2, 2024
Hyundai Samho 8107	Alpha Gas	Hyundai Samho	170520	XDF	01/06/2024	Q2, 2024
Hyundai Samho 8147	H-Line	Hyundai Samho	174000	XDF	01/11/2023	Q4, 2023
Samsung 2459	Celsius Shipping	Samsung	180000	ME-GA	01/06/2023	Q2, 2023
Samsung 2460	Celsius Shipping	Samsung	180000	ME-GA	01/09/2023	Q3, 2023
Samsung 2461	Celsius Shipping	Samsung	180000	ME-GA	01/12/2023	Q4, 2023
Hyundai Samho 8101	Knutsen	Hyundai Samho	174000	ME-GA	01/10/2023	Q4, 2023
Hyundai Samho 8102	Knutsen	Hyundai Samho	174000	ME-GA	01/09/2025	Q3, 2025
Hyundai Ulsan 3320	JP Morgan	Hyundai Heavy	174000	ME-GA	01/07/2025	Q3, 2025
Hyundai Ulsan 3321	JP Morgan	Hyundai Heavy	174000	ME-GA	01/09/2025	Q3, 2025
New Green	Pan Ocean	Hyundai Heavy	174000	ME-GA	01/10/2024	Q4, 2024
New Oasis	Pan Ocean	Hyundai Heavy	174000	ME-GA	01/12/2024	Q4, 2024
Daewoo 2522	Hyundai LNG Shipping	DSME	174000	MEGI	01/05/2024	Q2, 2024
Hyundai Samho 8148	Knutsen	Hyundai Samho	174000	XDF	01/02/2024	Q1, 2024
Hyundai Samho 8149	Knutsen	Hyundai Samho	174000	ME-GA	01/03/2024	Q1, 2024
Hyundai Ulsan 3297	Hyundai LNG Shipping	Hyundai Heavy	174000	XDF	01/05/2024	Q2, 2024
Hyundai Ulsan 3298	Hyundai LNG Shipping	Hyundai Heavy	174000	XDF	01/11/2024	Q4, 2024
Hyundai Ulsan 3299	Hyundai LNG Shipping	Hyundai Heavy	174000	XDF	01/01/2025	Q1, 2025
Samsung 2579	Celsius Shipping	Samsung	180000	ME-GA	01/03/2024	Q1, 2024
Samsung 2584	Celsius Shipping	Samsung	180000	ME-GA	01/07/2024	Q3, 2024
Samsung 2585	Celsius Shipping	Samsung	180000	ME-GA	01/09/2024	Q3, 2024
Hudong-zhonghua H1838a	K-Line	Hudong-Zhonghua	79960	XDF	01/09/2023	Q3, 2023
Hyundai Samho 8140	Capital Gas	Hyundai Samho	174000	ME-GA	01/07/2024	Q3, 2024
Daewoo 2523	MOL	DSME	174000	ME-GA	01/02/2024	Q1, 2024
Daewoo 2524	MOL	DSME	174000	ME-GA	01/04/2024	Q2, 2024
Daewoo 2525	MOL	DSME	174000	ME-GA	01/08/2024	Q3, 2024
Daewoo 2526	MOL	DSME	174000	ME-GA	01/10/2024	Q4, 2024
Daewoo 2527	MOL	DSME	174000	ME-GA	01/07/2024	Q3, 2024
Hudong-zhonghua H1790a	MOL	Hudong-Zhonghua	175000	XDF	01/09/2024	Q3, 2024
Hudong-zhonghua H1791a	MOL	Hudong-Zhonghua	175000	XDF	01/12/2024	Q4, 2024
Hudong-zhonghua H1792a	MOL	Hudong-Zhonghua	175000	XDF	01/03/2025	Q1, 2025
Hudong-zhonghua H1793a	MOL	Hudong-Zhonghua	175000	XDF	01/05/2025	Q2, 2025
Samsung 2580	NYK	Samsung	174000	XDF	01/09/2023	Q3, 2023
Samsung 2581	NYK	Samsung	174000	XDF	01/11/2023	Q4, 2023
Samsung 2582	NYK	Samsung	174000	XDF	01/12/2023	Q4, 2023
Samsung 2583	NYK	Samsung	174000	XDF	01/02/2024	Q1, 2024
Samsung 2592	JP Morgan	Samsung	174000		01/04/2024	Q2, 2024
Samsung 2593	JP Morgan	Samsung	174000		01/07/2024	Q3, 2024
Samsung 2594	JP Morgan	Samsung	174000		01/10/2024	Q4, 2024

DFDE = dual fuel diesel engines, STRH = steam turbine reheat / ultra steam turbine, MEGI = marine electric gas injection, DRL = slow speed diesel, FSRU = vessel with regas capacity, FLNG = floating LNG production unit
Data last updated = 8 December 2022

Name	Owners	Yard	Capacity	Propulsion	Delivered	Delivery
Samsung 2595	JP Morgan	Samsung	174000		01/01/2025	Q1, 2025
Samsung 2596	JP Morgan	Samsung	174000	ME-GA	01/11/2024	Q4, 2024
Samsung 2597	JP Morgan	Samsung	174000	ME-GA	01/12/2024	Q4, 2024
Apostolos	Capital Gas	Hyundai Heavy	174000	ME-GA	01/06/2024	Q2, 2024
Assos	Capital Gas	Hyundai Heavy	174000	ME-GA	01/05/2024	Q2, 2024
Daewoo 2528	Maran Gas Maritime	DSME	174000	MEGI	01/08/2024	Q3, 2024
Daewoo 2529	Maran Gas Maritime	DSME	174000	MEGI	01/11/2024	Q4, 2024
Daewoo 2530	BWGas	DSME	174000	MEGI	01/03/2025	Q1, 2025
Daewoo 2531	BWGas	DSME	174000	MEGI	01/05/2025	Q2, 2025
Samsung 2600	JP Morgan	Samsung	174000		01/07/2024	Q3, 2024
Samsung 2601	JP Morgan	Samsung	174000		01/01/2025	Q1, 2025
Samsung 2598	Celsius Shipping	Samsung	180000	ME-GA	01/01/2025	Q1, 2025
Samsung 2599	Celsius Shipping	Samsung	180000	ME-GA	01/05/2025	Q2, 2025
Hudong-zhonghua H1834a	ULT	Hudong-Zhonghua	174000	XDF	01/09/2024	Q3, 2024
Hudong-zhonghua H1835a	ULT	Hudong-Zhonghua	174000	XDF	01/12/2024	Q4, 2024
Hudong-zhonghua H1836a	ULT	Hudong-Zhonghua	174000	XDF	01/03/2025	Q1, 2025
Samsung 2604	NYK	Samsung	174000	XDF	01/12/2024	Q4, 2024
Daewoo 2532	GasLog	DSME	174000	MEGI	01/05/2024	Q2, 2024
Daewoo 2533	GasLog	DSME	174000	MEGI	01/08/2024	Q3, 2024
Daewoo 2534	GasLog	DSME	174000	MEGI	01/06/2025	Q2, 2025
Daewoo 2535	GasLog	DSME	174000	MEGI	01/08/2025	Q3, 2025
Samsung 2602	Celsius Shipping	Samsung	174000	ME-GA	01/12/2024	Q4, 2024
Samsung 2603	Celsius Shipping	Samsung	174000	ME-GA	01/12/2024	Q4, 2024
Hyundai Samho 8173	SK Shipping	Hyundai Samho	174000	ME-GA	01/09/2024	Q3, 2024
Daewoo 2537	Maran Gas Maritime	DSME	174000	MEGI	01/09/2025	Q3, 2025
Daewoo 2538	Maran Gas Maritime	DSME	174000	MEGI	01/11/2025	Q4, 2025
Hudong-zhonghua H1880a	MOL	Hudong-Zhonghua	174000	XDF	01/10/2024	Q4, 2024
Hudong-zhonghua H1881a	MOL	Hudong-Zhonghua	174000	XDF	01/08/2025	Q3, 2025
Hudong-zhonghua H1882a	MOL	Hudong-Zhonghua	174000	XDF	01/10/2025	Q4, 2025
Hudong-zhonghua H1883a	MOL	Hudong-Zhonghua	174000	XDF	01/03/2026	Q1, 2026
Hudong-zhonghua H1884a	MOL	Hudong-Zhonghua	174000	XDF	01/06/2026	Q2, 2026
Hudong-zhonghua H1885a	MOL	Hudong-Zhonghua	174000	XDF	01/09/2026	Q3, 2026
Daewoo 2536	MOL	DSME	174000	ME-GA	01/09/2024	Q3, 2024
Hyundai Samho 8175	H-Line	Hyundai Samho	174000	XDF	01/04/2025	Q2, 2025
Samsung 2607	H-Line	Samsung	174000	ME-GA	01/03/2025	Q1, 2025
Samsung 2608	H-Line	Samsung	174000	ME-GA	01/05/2025	Q2, 2025
Samsung 2609	H-Line	Samsung	174000	ME-GA	01/06/2025	Q2, 2025
Samsung 2610	H-Line	Samsung	174000	ME-GA	01/09/2025	Q3, 2025
Daewoo 2539	Maran Gas Maritime	DSME	174000	MEGI	01/11/2025	Q4, 2025
Daewoo 2540	Maran Gas Maritime	DSME	174000	MEGI	01/12/2025	Q4, 2025
Hyundai Samho 8170	Hyundai Glovis	Hyundai Samho	174000	ME-GA	01/08/2024	Q3, 2024
Daewoo 2541	Venture Global LNG	DSME	200000	ME-GA	01/07/2025	Q3, 2025
Daewoo 2542	Venture Global LNG	DSME	200000	ME-GA	01/10/2025	Q4, 2025
Daewoo 2543	Venture Global LNG	DSME	200000	ME-GA	01/12/2025	Q4, 2025
Jiangnan H2700	ADNOC	Jiangnan	175000	XDF	01/01/2025	Q1, 2025
Jiangnan H2701	ADNOC	Jiangnan	175000	XDF	01/05/2025	Q2, 2025
Samsung 2619	Celsius Shipping	Samsung	180000	ME-GA	01/10/2025	Q4, 2025
Hyundai Ulsan 3356	Dynagas	Hyundai Heavy	200000	ME-GA	01/03/2025	Q1, 2025
Hyundai Ulsan 3357	Dynagas	Hyundai Heavy	200000	ME-GA	01/04/2025	Q2, 2025
Hyundai Ulsan 3358	Dynagas	Hyundai Heavy	200000	ME-GA	01/12/2025	Q4, 2025
Hyundai Samho 8179	Knutsen	Hyundai Samho	174000	ME-GA	01/03/2025	Q1, 2025

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Name	Owners	Yard	Capacity	Propulsion	Delivered	Delivery
Hyundai Samho 8180	Knutsen	Hyundai Samho	174000	ME-GA	01/06/2025	Q2, 2025
Daewoo 2544	BWGas	DSME	174000	MEGI	01/11/2025	Q4, 2025
Daewoo 2545	BWGas	DSME	174000	MEGI	01/12/2025	Q4, 2025
Samsung 2635	TMS Cardiff Gas	Samsung	174000	ME-GA	01/09/2024	Q3, 2024
Samsung 2636	TMS Cardiff Gas	Samsung	174000	ME-GA	01/03/2026	Q1, 2026
Daewoo 2550	MOL	DSME	174000	ME-GA	01/09/2025	Q3, 2025
Daewoo 2551	MOL	DSME	174000	ME-GA	01/09/2026	Q3, 2026
Dalian No 1 G175k-1	China Merchant	Dalian Shipbuilding	175000	XDF	01/09/2025	Q3, 2025
Dalian No 1 G175k-2	China Merchant	Dalian Shipbuilding	175000	XDF	01/12/2025	Q4, 2025
Hyundai Samho 8181	Knutsen	Hyundai Samho	174000	ME-GA	01/12/2025	Q4, 2025
NYK CNOOC 1	NYK	Hudong-Zhonghua	174000		01/04/2027	Q2, 2027
NYK CNOOC 2	NYK	Hudong-Zhonghua	174000		01/03/2027	Q1, 2027
NYK CNOOC 3	NYK	Hudong-Zhonghua	174000		01/01/2027	Q1, 2027
NYK CNOOC 4	NYK	Hudong-Zhonghua	174000		01/05/2026	Q2, 2026
NYK CNOOC 5	NYK	Hudong-Zhonghua	174000		01/08/2026	Q3, 2026
NYK CNOOC 6	NYK	Hudong-Zhonghua	174000		01/11/2026	Q4, 2026
Jiangnan H2702	ADNOC	Jiangnan	175000	XDF	01/09/2025	Q3, 2025
Jiangnan H2703	ADNOC	Jiangnan	175000	XDF	01/01/2026	Q1, 2026
Jiangnan H2704	ADNOC	Jiangnan	175000	XDF	01/06/2026	Q2, 2026
Jiangnan H2705	ADNOC	Jiangnan	175000	XDF	01/09/2026	Q3, 2026
Samsung 2631	H-Line	Samsung	174000	ME-GA	01/07/2025	Q3, 2025
Samsung 2632	H-Line	Samsung	174000	ME-GA	01/12/2025	Q4, 2025
Samsung 2633	H-Line	Samsung	174000	ME-GA	01/01/2026	Q1, 2026
Hyundai Samho 8188	SK Shipping	Hyundai Samho	174000	ME-GA	01/07/2025	Q3, 2025
Hyundai Samho 8189	SK Shipping	Hyundai Samho	174000	ME-GA	01/08/2025	Q3, 2025
Hyundai Ulsan 3370	SK Shipping	Hyundai Heavy	174000	ME-GA	01/02/2025	Q1, 2025
Hyundai Ulsan 3371	SK Shipping	Hyundai Heavy	174000	ME-GA	01/03/2025	Q1, 2025
Petronas K-line 1	K-Line	Hudong-Zhonghua	174000	XDF	01/10/2025	Q4, 2025
Petronas K-line 2	K-Line	Hudong-Zhonghua	174000	XDF	01/12/2025	Q4, 2025
Petronas K-line 3	K-Line	Hudong-Zhonghua	174000	XDF	01/07/2026	Q3, 2026
Petronas K-line 4	K-Line	Hudong-Zhonghua	174000	XDF	01/10/2026	Q4, 2026
Daewoo 2559	SK Shipping, Pan Ocean, H-Line	DSME	174000	ME-GA	01/05/2024	Q2, 2024
Daewoo 2560	H-Line, Pan Ocean, SK Shipping	DSME	174000	ME-GA	01/04/2025	Q2, 2025
Daewoo 2561	Pan Ocean, SK Shipping, H-Line	DSME	174000	ME-GA	01/05/2025	Q2, 2025
Daewoo 2562	SK Shipping, Pan Ocean, H-Line	DSME	174000	ME-GA	01/06/2025	Q2, 2025
Daewoo 2563	H-Line, Pan Ocean, SK Shipping	DSME	174000	ME-GA	01/11/2025	Q4, 2025
Daewoo 2564	Pan Ocean, SK Shipping, H-Line	DSME	174000	ME-GA	01/11/2025	Q4, 2025
Daewoo 2565	Pan Ocean, SK Shipping, H-Line	DSME	174000	ME-GA	01/02/2026	Q1, 2026
Hyundai Samho 8196	EPS	Hyundai Samho	174000	ME-GA	01/02/2025	Q1, 2025
Hyundai Samho 8197	EPS	Hyundai Samho	174000	ME-GA	01/01/2025	Q1, 2025
Hyundai Ulsan 3380	Knutsen	Hyundai Heavy	174000	XDF	01/05/2025	Q2, 2025
Hyundai Ulsan 3381	Knutsen	Hyundai Heavy	174000	XDF	01/06/2025	Q2, 2025
Daewoo 2546	H-Line, Pan Ocean, SK Shipping	DSME	174000	ME-GA	01/12/2024	Q4, 2024
Daewoo 2547	H-Line, Pan Ocean, SK Shipping	DSME	174000	ME-GA	01/12/2024	Q4, 2024

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Data last updated = 8 December 2022

Name	Owners	Yard	Capacity	Propulsion	Delivered	Delivery
Daewoo 2548	H-Line, Pan Ocean, SK Shipping	DSME	174000	ME-GA	01/01/2025	Q1, 2025
Daewoo 2549	H-Line, Pan Ocean, SK Shipping	DSME	174000	ME-GA	01/02/2025	Q1, 2025
Daewoo 2552	Maran Gas Maritime	DSME	174000	MEGI	01/05/2026	Q2, 2026
Daewoo 2553	Maran Gas Maritime	DSME	174000	MEGI	01/06/2026	Q2, 2026
Hyundai Samho 8198	Capital Gas	Hyundai Samho	174000	ME-GA	01/01/2026	Q1, 2026
Hyundai Samho 8199	Capital Gas	Hyundai Samho	174000	ME-GA	01/03/2026	Q1, 2026
Samsung 2634	JP Morgan	Samsung	174000	ME-GA	01/05/2025	Q2, 2025
Samsung 2637	JP Morgan	Samsung	174000	ME-GA	01/07/2025	Q3, 2025
Samsung 2638	JP Morgan	Samsung	174000	ME-GA	01/08/2025	Q3, 2025
Samsung 2641	JP Morgan	Samsung	174000	ME-GA	01/11/2025	Q4, 2025
Samsung 2642	JP Morgan	Samsung	174000	ME-GA	01/01/2026	Q1, 2026
Samsung 2643	JP Morgan	Samsung	174000	ME-GA	01/02/2026	Q1, 2026
Samsung 2644	JP Morgan	Samsung	174000	ME-GA	01/05/2026	Q2, 2026
Samsung 2645	JP Morgan	Samsung	174000	ME-GA	01/06/2026	Q2, 2026
Samsung 2646	JP Morgan	Samsung	174000	ME-GA	01/07/2026	Q3, 2026
Samsung 2647	JP Morgan	Samsung	174000	ME-GA	01/08/2026	Q3, 2026
Hudong-Zhonghua H1892A	COSCO	Hudong-Zhonghua	174000	XDF	01/10/2025	Q4, 2025
Hudong-ZhonghuaH1893A	COSCO	Hudong-Zhonghua	174000	XDF	01/03/2026	Q1, 2026
Hyundai Ulsan 3382	Knutsen	Hyundai Heavy	174000	XDF	01/06/2025	Q2, 2025
Hyundai Ulsan 3383	Knutsen	Hyundai Heavy	174000	XDF	01/09/2025	Q3, 2025
Hyundai Ulsan 3384	Knutsen	Hyundai Heavy	174000	XDF	01/12/2025	Q4, 2025
Hyundai Ulsan 3385	Knutsen	Hyundai Heavy	174000	XDF	01/01/2026	Q1, 2026
Hyundai Ulsan 3386	Knutsen	Hyundai Heavy	174000	XDF	01/03/2026	Q1, 2026
Hyundai Ulsan 3387	Knutsen	Hyundai Heavy	174000	XDF	01/04/2026	Q2, 2026
Hyundai Ulsan 3393	Knutsen	Hyundai Heavy	174000	XDF	01/07/2026	Q3, 2026
Hyundai Ulsan 3394	Knutsen	Hyundai Heavy	174000	XDF	01/07/2026	Q3, 2026
Hyundai Samho 8049	NYK	Hyundai Samho	174000	XDF	01/03/2025	Q1, 2025
Hyundai Samho 8174	NYK	Hyundai Samho	174000	XDF	01/10/2025	Q4, 2025
Hyundai Ulsan 3395	NYK, MISC, K-Line, China LNG Shipping Holdings	Hyundai Heavy	174000	XDF	01/07/2025	Q3, 2025
Hyundai Ulsan 3396	NYK, MISC, K-Line, China LNG Shipping Holdings	Hyundai Heavy	174000	XDF	01/10/2025	Q4, 2025
Hyundai Ulsan 3397	NYK, MISC, K-Line, China LNG Shipping Holdings	Hyundai Heavy	174000	XDF	01/11/2025	Q4, 2025
Hyundai Ulsan 3398	NYK, MISC, K-Line, China LNG Shipping Holdings	Hyundai Heavy	174000	XDF	01/03/2026	Q1, 2026
Hyundai Ulsan 3399	NYK, MISC, K-Line, China LNG Shipping Holdings	Hyundai Heavy	174000	XDF	01/06/2026	Q2, 2026
Hyundai Ulsan 3400	NYK, MISC, K-Line, China LNG Shipping Holdings	Hyundai Heavy	174000	XDF	01/08/2026	Q3, 2026
Hyundai Ulsan 3401	NYK, MISC, K-Line, China LNG Shipping Holdings	Hyundai Heavy	174000	XDF	01/10/2026	Q4, 2026
Daewoo 2558	MOL	DSME	174000	ME-GA	01/09/2026	Q3, 2026
Hudong-Zhonghua H1794A	MOL	Hudong-Zhonghua	174000	XDF	01/02/2027	Q1, 2027
Hudong-Zhonghua H1795A	MOL	Hudong-Zhonghua	174000	XDF	01/07/2027	Q3, 2027
Hudong-Zhonghua H1796A	MOL	Hudong-Zhonghua	174000	XDF	01/12/2027	Q4, 2027
Hudong-zhonghua H1797a	NYK, MISC, K-Line, China LNG Shipping Holdings	Hudong-Zhonghua	174000	XDF	01/09/2025	Q3, 2025
Hudong-zhonghua H1798a	NYK, MISC, K-Line, China LNG Shipping Holdings	Hudong-Zhonghua	174000	XDF	01/11/2025	Q4, 2025

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Name	Owners	Yard	Capacity	Propulsion	Delivered	Delivery
Hudong-zhonghua H1799a	NYK, MISC, K-Line, China LNG Shipping Holdings	Hudong-Zhonghua	174000	XDF	01/02/2026	Q1, 2026
Hudong-zhonghua H1800a	NYK, MISC, K-Line, China LNG Shipping Holdings	Hudong-Zhonghua	174000	XDF	01/05/2026	Q2, 2026
Hudong-zhonghua H1801a	NYK, MISC, K-Line, China LNG Shipping Holdings	Hudong-Zhonghua	174000	XDF	01/07/2026	Q3, 2026
Samsung 2611	H-Line, Pan Ocean, SK Shipping	Samsung	174000	ME-GA	01/01/2025	Q1, 2025
Samsung 2612	H-Line, Pan Ocean, SK Shipping	Samsung	174000	ME-GA	01/03/2025	Q1, 2025
Samsung 2639	JP Morgan	Samsung	174000	ME-GA	01/09/2025	Q3, 2025
Samsung 2640	JP Morgan	Samsung	174000	ME-GA	01/09/2025	Q3, 2025
MOL ENN 1	MOL	Hudong-Zhonghua	174000		01/06/2027	Q2, 2027
MOL ENN 2	MOL	Hudong-Zhonghua	174000		01/10/2027	Q4, 2027
MOL ENN 3	MOL	Hudong-Zhonghua	174000		01/12/2027	Q4, 2027
Cardiff 3	TMS Cardiff Gas	Hyundai Samho	174000	XDF	01/08/2026	Q3, 2026
Qatar Cardiff 1	TMS Cardiff Gas	DSME	174000	ME-GA	01/06/2026	Q2, 2026
Qatar Cardiff 2	TMS Cardiff Gas	DSME	174000	ME-GA	01/08/2026	Q3, 2026
Dalian n3	China Merchant	Dalian Shipbuilding	175000	XDF	01/07/2026	Q3, 2026
Dalian n4	China Merchant	Dalian Shipbuilding	175000	XDF	01/10/2026	Q4, 2026
Dalian n5	China Merchant	Dalian Shipbuilding	175000	XDF	01/04/2026	Q2, 2026
Dalian n6	China Merchant	Dalian Shipbuilding	175000	XDF	01/02/2025	Q1, 2025
Meiji 1	Meiji Shipping	DSME	174000	ME-GA	01/09/2025	Q3, 2025
Meiji 2	Meiji Shipping	DSME	174000	ME-GA	01/01/2026	Q1, 2026
Meiji 3	Meiji Shipping	DSME	174000	ME-GA	01/05/2026	Q2, 2026
Meiji 4	Meiji Shipping	DSME	174000	ME-GA	01/10/2026	Q4, 2026
MISC EM 1	MISC	Samsung	174000	XDF	01/06/2026	Q2, 2026
MISC EM 2	MISC	Samsung	174000	XDF	01/08/2026	Q3, 2026
K3 SHI 1	H-Line, Pan Ocean, SK Shipping	Samsung	174000	ME-GA	01/04/2026	Q2, 2026
K3 SHI 2	H-Line, Pan Ocean, SK Shipping	Samsung	174000	ME-GA	01/08/2026	Q3, 2026
Samho Cardiff	TMS Cardiff Gas	Hyundai Samho	174000	XDF	01/10/2026	Q4, 2026
Samho Cardiff 2	TMS Cardiff Gas	Hyundai Samho	174000	XDF	01/11/2026	Q4, 2026
VG 1	Venture Global LNG	DSME	200000	ME-GA	01/10/2026	Q4, 2026
VG 2	Venture Global LNG	DSME	200000	ME-GA	01/12/2026	Q4, 2026
Yangzijiang 1	Hammonia Reederei	Yangzijiang	175000		01/09/2025	Q3, 2025
Yangzijiang 2	Hammonia Reederei	Yangzijiang	175000		01/06/2026	Q2, 2026
Wideshine 2	CSSC	Hudong-Zhonghua	174000	XDF	01/03/2028	Q1, 2028
Wideshine 3	CSSC	Hudong-Zhonghua	174000	XDF	01/06/2028	Q2, 2028
Wideshine 4	CSSC	Hudong-Zhonghua	174000	XDF	01/09/2028	Q3, 2028
Maran Nov	Maran Gas Maritime	DSME	174000	MEGI	01/12/2026	Q4, 2026
Minerva 1	Minerva Marine	Samsung	174000	ME-GA	01/02/2026	Q1, 2026
Minerva 2	Minerva Marine	Samsung	174000	ME-GA	01/03/2026	Q1, 2026
Seapeak 1	Seapeak	Samsung	174000	ME-GA	01/01/2027	Q1, 2027
Seapeak 2	Seapeak	Samsung	174000	ME-GA	01/03/2027	Q1, 2027
Seapeak 3	Seapeak	Samsung	174000	ME-GA	01/05/2027	Q2, 2027
Seapeak 4	Seapeak	Samsung	174000	ME-GA	01/07/2027	Q3, 2027
Seapeak 5	Seapeak	Samsung	174000	ME-GA	01/12/2027	Q4, 2027

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WORLD SMALL SCALE LNG FLEET*

Built	Name	CBM	Cargo Type	Trading area	Trading in LNG?	Ship Owner / Operator
1974	Seagas	187	LNG	Sweden	Yes	AGA
1988	Kayoh Maru	1,517	LNG	Japan	Yes	Daiichi
1993	Aman Bintulu	18,928	LNG	Malaysia - Japan	Yes	Perbadanan/NYK
1996	Surya Aki	19,475	LNG	Indonesia - Japan	Yes	MCGC
1997	Aman Sendai	18,928	LNG	Malaysia - Japan	Yes	Perbadanan/NYK
1998	Pelita Energy	18,800	LNG	Malaysia - Japan	Yes	Perbadanan/NYK
2000	Triputra	23,096	LNG	Indonesia - Japan	Yes	MCGC
2003	Pioneer Knutsen	1,100	LNG	Norway	Yes	Knutsen
2003	Shinju Maru No.1	2,540	LNG	Japan	Yes	Shinwa
2005	North Pioneer	2,500	LNG	Japan	Yes	Japan Liquid Gas
2007	Sun Arrows	19,531	LNG	Malaysia - Russia - Japan	Yes	Mitsui
2008	Kakurei Maru	2,536	LNG	Japan	Yes	Hogaki Zosen
2008	Shinju Maru No.2	2,540	LNG	Japan	Yes	Shinwa
2009	Coral Methane	7,551	LNG/LPG/Ethylene	Northwest Europe/Baltics	Yes, sometimes	Anthony Veder
2010	Coral Favia	10,000	LNG/LPG/Ethylene	Worldwide	No	Anthony Veder
2010	Coral Fraseri	10,000	LNG/LPG/Ethylene	Worldwide	No	Anthony Veder
2011	Coral Furcata	10,000	LNG/LPG/Ethylene	Worldwide	No	Anthony Veder
2011	Coral Fungia	10,000	LNG/LPG/Ethylene	Worldwide	No	Anthony Veder
2011	Akebono Maru	3,556	LNG	Japan	Yes	Chuo Kaiun
2011	Vision Spirit	12,000	LNG/LPG/Ethylene	Worldwide	No	Teekay
2011	Unikum Spirit	12,000	LNG/LPG/Ethylene	Worldwide	No	Teekay
2012	Coral Energy	15,600	LNG	Northwest Europe/Baltics	Yes	Anthony Veder
2013	Coral Anthelia	6,500	LNG/Ethylene			Anthony Veder
2013	JX Energy TBN	2,500	LNG	Japan	Yes	JX Energy
2013	Kakuyu Maru	2,500	LNG	Japan	Yes	Tsurumi Sunmarine
2015	JS Ineos Ingenuity	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2015	JS Ineos Insight	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2015	JS Ineos Intrepid	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2015	LNG Barge TBN	3,000	LNG	US Coast	Yes	LNG America
2015	PetroChina TBN	30,000	LNG	China		PetroChina
2016	Hai Yang Shi You 301	30,000	LNG	Bali FSU	Yes	CETS (CNOOC)
2016	Clean Jacksonville	2,200	LNG	US Coast	Yes	CME
2016	JS Ineos Indepence	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2016	JS Ineos Innvovation	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2016	JS Ineos Inspiration	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2016	LNG Prime	2,250	LNG	Northwest Europe	Yes	Veka Deen LNG
2017	Coralius	5,800	LNG	Northwest Europe/Baltics	Yes, for Skangas	Anthony Veder
2017	Coral EnergICE	18,000	LNG	Northwest Europe/Baltics	Yes	Anthony Veder
2017	Coral Encanto	30,000	LNG	China	Yes	Anthony Veder
2017	JS Ineos Invention	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2017	JS Ineos Intuition	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2017	Oizmendi	600	LNG	Spain	Yes	Itsas Gas
2017	LNG-Gorskaya TBN	7,300	LNG	Russia	Yes	LNG-Gorskaya
2017	LNG-Gorskaya TBN	7,300	LNG	Russia	Yes	LNG-Gorskaya
2017	LNG-Gorskaya TBN	7,300	LNG	Russia	Yes	LNG-Gorskaya
2017	Green Zeebrugge	5,000	LNG	Northwest Europe	Yes	NYK
2017	New Frontier 1	6,500	LNG	Northwest Europe	Yes	Shell
2018	Kairos	7,500	LNG	Baltic	Yes	Bernhard Schulte
2018	LNG London	3,000	LNG	Northwest Europe	Yes	Shell
2018	Shell Bunker Barge TBN 2	6,500	LNG	Northwest Europe	Yes	Shell
2018	Shell Bunker Barge TBN 3	6,500	LNG	Northwest Europe	Yes	Shell

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Built	Name	CBM	Cargo Type	Trading area	Trading in LNG?	Ship Owner / Operator
2018	Bunker Breeze	1,200	LNG	Barcelona	Yes	Suardiaz Energy Shipping
2018	HUA XIANG 8	13,720	LNG	China	Yes	Zhejiang Huaxiang
2019	SM Jeju LNG1	7,500	LNG	Korea	Yes	Korea Line
2019	Gas Agility	18,600	LNG	NWE	Yes	MOL
2019	Flexfueller 001	1,480	LNG	Amsterdam	Yes	Titan LNG
2020	Avenir Advantage	7,500	LNG	Mediterranean	Yes	Avenir LNG
2020	Avenir Accolade	7,500	LNG	Mediterranean	Yes	Avenir LNG
2020	Avenir Aspiration	7,500	LNG		Yes	Avenir LNG
2020	Kaguya	3,500	LNG	Japan	Yes	CLS
2020	CNTIC VPOWER Global	28,000	LNG	Myanmar	Yes	Dalian Inteh Group
2020	Ecobunker Tokyo Bay	2,500	LMG	Japan	Yes	Ecobunkers
2020	Optimus	6,000	LNG	NWE	Yes	Elenger
2020	FueLNG Bellina	7,500	LNG	Singapore	Yes	FuelLNG
2020	SM Jeju LNG2	7,500	LNG	Korea	Yes	Korea Line
2020	Q-LNG 4000	4,000	LNG	US Coast	Yes	Q-LNG Transport/Harvey Gulf
2020	Flexfueller 002	1,480	LNG	Antwerp	Yes	Titan LNG
2021	Xin Ao Pu Tuo Hao	8,500	LNG	China	Yes	ENN
2021	Avenir Ascension	7,500	LNG		Yes	Avenir LNG
2021	Hai Gang Wei Lai	20,000	LNG	China	Yes	SSES
2021	Bergen LNG	850	LNG	Norway	Yes	Bergen Tankers
2021	Dmitry Mendeleev	5,800	LNG	Russia	Yes	Gazprom Neft
2021	JMU TBN	2,500	LNG	Japan	Yes	JMU
2021	Ravenna Knutsen	30,000	LNG	Mediterranean	Yes	Knutsen OAS
2021	Brassavola	12,000	LNG	Singapore	Yes	MOL
2021	Gas Vitality	18,600	LNG	Mediterranean	Yes	MOL
2021	TG TBN	500	LNG	Korea	Yes	Trans Gas
2021	Titan Hyperion	8,000	LNG	Benelux	Yes	Titan LNG
2022	Coral Nordic	30,000	LNG	Worldwide	Yes	Anthony Veder
2022	Avenir Achievement	20,000	LNG	Worldwide	Yes	Avenir LNG
2022	Haugesund Knutsen	5,000	LNG	Spain	Yes	Knutsen OAS
2022	Clean Cañaveral	5,400	LNG	USG	Yes	PNE
2022	K.Lotus	18,000	LNG	Korea	Yes	K Line
2023	Cryopeak TBA	4,000	LNG	West Canada	Yes	Cryopeak
2023	Kuntsen TBN	12,500	LNG	Spain	Yes	Knutsen OAS
2023	SM Jeju LNG3	7,500	LNG	Korea	Yes	Korea Line
2023	Pan Ocean TBN	18,000	LNG	USG	Yes	Pan Ocean Co
2023	Krios	4,200	LNG	Benelux	Yes	Titan LNG
2023	Fratelli Cosulich TBN	8,000	LNG	Mediterranean	Yes	Fratelli Cosulich
2023	Kanfer TBN	6,000	LNG	Worldwide	Yes	Kanfer Shipping
2023	Kanfer TBN	6,000	LNG	Worldwide	Yes	Kanfer Shipping
2023	PNE TBN	5,500	LNG	USG	Yes	PNE
2024	Avenir TBN (option)	20,000	LNG	Worldwide	Yes	Avenir LNG
2024	Avenir TBN (option)	20,000	LNG	Worldwide	Yes	Avenir LNG
2024	TBN	30,000	LNG	Australia	Yes	Anthony Veder ?
2024	Crowley TBN	12,000	LNG	US Coast	Yes	Crowley Maritime
2024	CNOOC TBN	12,000	LNG	China	Yes	CNOOC
2024	TBN	12,500	LNG	Worldwide	Yes	???
2024	Keys TBN	3,500	LNG	Japan	Yes	Keys Bunkering West Japan Co
2024	Seaspan TBN 1	7,600	LNG	Canada	Yes	Seaspan ULC
2024	Fratelli Cosulich TBN	8,000	LNG	Mediterranean	Yes	Fratelli Cosulich
2025	Seaspan TBN 2	7,600	LNG	Canada	Yes	Seaspan ULC
2026	Avenir TBN (option)	20,000	LNG	Worldwide	Yes	Avenir LNG
2026	Avenir TBN (option)	20,000	LNG	Worldwide	Yes	Avenir LNG