LNG Shipping News

AN LNG JOURNAL TITLE ON LNG CARRIERS
5 January 2017

Qatargas and RasGas to merge

Qatar Petroleum (QP) has announced plans to merge giant LNG producers Qatargas and RasGas.

At a news conference held last month, QP CEO Saad al-Kaabi said that behind the announcement was the necessity to cut costs, Reuters reported who attended the press conference.

"Of course as an outcome of this cost reduction will be realised, it will make us more competitive in the market," he said. He also said that the move would save "hundreds of millions of dollars."

The merger, which will result in a single company - Qatargas - will take around 12 months to complete and was due to begin before the end of last year.

Once the new structure is in place, some areas of the business could see job cuts, although the operational side of the plants will not be affected, al-Kaabi said.

Qatargas is the world's largest LNG producer with an annual output capacity of 42 mill tonnes per year. While QP owns a majority stake, other energy firms including Total, Mitsui & Co and ConocoPhillips also have small stakes in the company.

RasGas has a production capacity of about 37 mill tonnes per year and is a 70:30% joint venture between QP and ExxonMobil. ■

Qatar Petroleum's president and CEO Saad Sherida al-Kaabi. Source: ADIPEC

NEWS NUDGE

Marc Haestier joins GTT as CFO

Marc Haestier has been appointed GTT CFO.

Philippe Berterottière, GTT chairman and CEO, commented: "We are glad to welcome Marc in GTT's executive team. His extensive experience of the financial function, acquired within a number of industrial groups, will be of great help to us in order to support GTT ambitions."

Haestier was recently employed as CFO of Engie's infrastructure business, where he had been, since 2010.

He began his career holding various financial positions within Arjo Wiggins between 1985 and 1997 in Belgium and subsequently in the UK, before joining Alstom in Paris in 1997 as director of Treasury and Financing. He then moved to Gaz de France in 2004 as deputy CFO.

New LNGC to serve Cameron project

Mitsubishi Corp (MC) has announced plans for a new LNGC to be deployed for the US Cameron LNG project.

The vessel will be owned by Diamond LNG Shipping 3 Pte Ltd (DLS-3), a shipowning joint venture formed between MC, Toho LNG Shipping (TLS), Tohoku Electric Power (THG) and NYK.

In December, 2015, MC entered into a Shipbuilding Contract with LNG concern MI LNG Co Ltd, a joint venture company for designing and marketing LNGCs established between MHI (51%) and Imabari Shipbuilding (49%) in April, 2013.

MI LNG signed a Heads of Agreement for a timecharter with its wholly owned subsidiary, Diamond Gas International to build the new vessel, as part of its efforts to secure gas carriers to transport LNG produced at Cameron. MC set up DLS-3 as a wholly owned subsidiary in May, 2016 to operate as the vessel owning company.

At the time, DLS-3 was established, however, there was an understanding among the partners that it would become a four-company joint venture incorporating Toho LNG Shipping, Tohoku Electric and NYK, once they were approved by the relevant authorities and procedures for their equity participation were completed.

MC invests in Cameron LNG through Japan LNG Investments, a joint venture with NYK. LNG produced at Cameron is earmarked for sale to Toho Gas and Tohoku Electric through MC's Singapore-based energy business subsidiary, Diamond Gas International.

The new 165,000 cu m Sayaringo STaGE type vessel, scheduled for delivery from Mitsubishi Heavy Industries in 2019, will be used to transport LNG to the two companies. ■

SHIPPING NEWS AGENDA

Novatek, Mitsubishi and Mitsui sign LNG projects agreement

Novatek has signed Memorandums of Understanding (MoU) with Mitsubishi and Mitsui.

According to the MoU, the parties intend to pursue strategic co-operation in the upstream and liquefaction sectors in Russia, LNG and liquid hydrocarbons supply, equipment and technology supply, as well as joint development of LNG markets, Novatek said in a statement.

The Russian company and its Japanese partners signed the MoUs within the framework on the back of a two-day visit of the Russian delegation led by Russian President Vladimir Putin to Japan last month.

In addition, Novatek signed a strategic co-operation agreement for its second LNG plant in the Arctic with Japanese trading and investment conglomerate Marubeni Corp, the statement said.

'The parties intend to pursue opportunities of strategic co-operation in the upstream and midstream NOVATEK Arctic LNG 2 project in Russia, as well as the supply of LNG, shipping arrangements, gas related infrastructure projects and transactions of other liquid hydrocarbons,' it said.

Novatek is currently working to complete the South-Tambeyskoye field-based Yamal LNG project, which will produce 16.5 mill tonnes of LNG per annum and become Russia's first LNG plant in the Arctic. Arctic LNG-2 plant is still at the planning stage, with Novatek previously stating that the company expected to launch the facility by 2025.

The company also said it plans to take up around 7% of the global LNG market with both plants' combined output. ■

NextDecade and FLEX LNG join forces

NextDecade Global Solutions, a subsidiary of NextDecade and FLEX LNG have signed a Heads of Agreement (HOA) to create a vehicle for customers looking to purchase LNG from NextDecade's Rio Grande LNG export project in Brownsville, Texas.

Initially, NextDecade and FLEX LNG will introduce an FSRU and landside facilities for NextDecade's international customers including LNG supply.

The agreement will reunite two pioneers of the FLNG business - NextDecade's Chair and CEO Kathleen Eisbrenner and Jonathan Cook - who will become CEO of FLEX LNG early this year.

In 2003, Eisbrenner founded Excelerate Energy where she introduced the first FSRUs. Cook was COO who helped lead the development, construction, and operations of the units.

"Global interest for NextDecade's US-produced LNG has demonstrated a need for additional and flexible import solutions worldwide," said Eisbrenner. "We are delighted to be partnering with FLEX LNG to bring these options to support our customers."

The HOA stipulates the terms for the long-term charter of FLEX LNG FSRUs, connecting customers with a need for regasification import solutions to NextDecade's Rio Grande LNG export project.

FLEX LNG is developing FSRU solutions, which include newbuild vessels, as well as conversions of existing LNGCs. ■

NextDecade's Chairperson and CEO Kathleen Eisbrenner

NEWS NUDGE

Egypt cancels tender for third FSRU

Egypt has cancelled a tender to lease a third FSRU, as it is no longer needed, the country's Oil Minister, Tarek El Molla, told Reuters.

"The tender to rent a third regasification terminal was cancelled due to a lack of need for it and until we reassess the gas production capacity of Egypt and the consumption levels over the next few years," he said.

Once a net energy exporter, Egypt began importing LNG in 2015 and has leased two FSRUs to help avert power shortages caused by falling energy production and rising consumption, Reuters reported.

FERC approves Golden Pass

The US Federal Energy Regulatory Commission (FERC) has granted Golden Pass Products permission to build and operate the Golden Pass LNG facility near Sabine Pass, Texas.

Charlie Riedl, Executive Director of the US-based Center for Liquefied Natural Gas (CLNG), commented; "This is an important milestone for Golden Pass and another stepping stone in the development of the US LNG industry.

"Having waited for over two and a half years to secure its FERC approval, we hope the Department of Energy will waste no time in reviewing Golden Pass' application to export to non-FTA countries, so that the developers can move ahead with realising this important project," he said.

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GasLog to manage Gastrade FSRU

A wholly-owned subsidiary of GasLog Ltd has agreed a sale and purchase agreement (SPA) to acquire a 20% shareholding in Gastrade.

Gastrade has a license to develop an independent natural gas system offshore Alexandroupolis in Northern Greece using an FSRU, plus other fixed infrastructure.

Gastrade is a private limited company, incorporated in Greece and wholly owned by Asimina-Eleni Copelouzou and has been involved in the development of the FSRU project over a number of years.

Closing of the SPA acquisition is subject to the satisfaction of certain closing conditions set out in the transaction documents. As well as being a shareholder, GasLog will provide operations and maintenance services for the FSRU.

Gastrade is currently in discussions with a number of additional potential investors, including DEPA, the Greek state owned gas company, Bulgarian Energy Holding (BEH), the holding company of the Bulgarian Ministry of Energy and major gas suppliers.

Other large scale international companies have expressed an intention to participate in the ownership and development of the terminal. A number of companies have also expressed interest in supplying LNG to the project, GasLog said

This FSRU project would provide a new route and a vital source of gas diversification to a number of European countries that are currently highly dependent on pipeline gas in Southeast and Central Europe.

As well as enhancing security of supply in the region, it will also promote competition and pricing flexibility. The project has the backing of the Greek and the Bulgarian Governments, plus the support of the EU. It has been assigned EU Project of Common Interest (PCI) status, that is further designated as a priority EU energy infrastructure project.

EU grant

The front-end engineering and design (FEED) study is expected to be part-funded by an EU grant, and is scheduled to commence early this year.

Gastrade is expected to take final investment decision (FID) by the end of 2017 with the FSRU scheduled to be operational by the end of 2019.

Paul Wogan, GasLog Ltd CEO, commented, "I am delighted that GasLog has been invited to join Gastrade. This is a strategically important energy import project for the region. The FSRU will be used as a gateway for LNG imports into Southern Europe, where there is a growing demand and a need to diversify existing gas supply. This announcement, alongside GasLog's ordering of long-lead items, demonstrates the ongoing development of the company's FSRU strategy."

GasLog CEO Paul Wogan has overseen a deal with Gastrade

Konstantinos Spyropoulos, Chairman and Managing Director of Gastrade added, "We are very pleased to have GasLog involved in the project. Their long, successful track record in the maritime and in particular in the LNG sector, coupled with their leading innovation initiatives, make them an excellent partner to take the project forward. We look forward to working with GasLog to bring this project to commercial operation." ■

GEIL opts for Höegh FSRU

Höegh LNG has signed an FSRU contract with Global Energy Infrastructure Limited (GEIL) for GEIL's LNG import project in Port Qasim, near Karachi, Pakistan.

The project will be the first private LNG import terminal in Pakistan. On 29th September, 2016, GEIL signed a long-term LNG supply agreement with Qatargas.

The FSRU charter is for 20 years with two five year extension options and is expected to generate an average annual EBITDA of around $36 mill, Höegh said.

The contract is subject to both parties' board approval.

The terminal's construction is planned to commence early 2017 and expected start-up date is second quarter of 2018. The FSRU will be provided from Höegh LNG's fleet, either a unit under construction, a planned conversion or from new FSRU's on order.

Höegh LNG's President and Chief Executive Officer, Sveinung Støhle, said: "We are delighted to have been awarded the contract with GEIL for their new LNG import terminal in Pakistan, and look forward to completing the project together with our client and the other partners.

"Our modern FSRU solutions offer our client the quickest, the most cost efficient and the flexible way of importing LNG. With this contract we have full contract coverage for our FSRU fleet of nine units on the water and under construction," he said.

GEIL's Group CEO, Ahmet Caliskan, said: "We are delighted to conclude this 20-year agreement between GEIL and Höegh LNG. As the leading provider, we have full confidence in Höegh LNG's modern FSRUs and management capacity.

"In addition to this major milestone, we have already executed a 1.3 mill tonnes per annum for 20 years LNG supply with Qatargas. Furthermore, we are near signing an additional three million tonnes per annum of LNG supply with two major LNG producers, as well as nearing to sign the EPC contract for the facility," he said.

Sveinung Støhle's Höegh LNG is to supply an FSRU for GEIL project

**Meanwhile, Höegh LNG Partners LP has finalised the 51% interest transfer in the FSRU 'Höegh Grace'.

Her purchase price was $188.7 mill, less $96.9 mill, the pro rata amount of the vessel's debt.

Höegh LNG Partners also has the option, on or prior to 28th February, 2017, to buy the remaining interest in the entities that own and operate 'Höegh Grace'.■

NEWS NUDGE

BP and PTT sign LNG sale and purchase agreement

BP and PTT Public Limited Company (PTT) entered into a sales and purchase agreement (SPA) for LNG.

Under the agreement, BP will provide PTT with around 1 mill tonnes of LNG per annum for 20 years.

The supply is due to start this year and will be sourced from BP's diverse portfolio of LNG, including the US Freeport LNG project.

Paul Reed, BP Integrated Supply and Trading CEO, said: "BP is pleased to conclude this LNG sale and purchase agreement with PTT, with whom we have a long standing relationship. Thailand has become a significant LNG market and this agreement with PTT further demonstrates our LNG supply capability in the region."

Commercial terms of the agreement were not disclosed.

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ABS classes world's largest VLECs

Last month, the ABS-classed 'Ethane Crystal', the world's first Very Large Ethane Carrier (VLEC), loaded her first ethane cargo at Enterprise Products Partner's Morgan's Point Terminal.

"Loading ethane onto the world's first VLEC represents a significant milestone for the global gas industry," said ABS Chairman, President and CEO Christopher Wiernicki. "ABS is proud to have worked alongside all of the stakeholders throughout the design, construction, delivery, and now, during operation of this vessel."

Delivered in November, 2016, 'Ethane Crystal' is the first of six VLECs that will be delivered with ABS class through 2017. The second vessel, 'Ethane Emerald', was delivered in early December, 2016.

They will able to carry cargoes such as ethane and liquefied petroleum gases (LPG). With an 87,000 cu m cargo carrying capacity, they are the first to be constructed with a specially designed GTT Mark III membrane cargo containment system.

'Ethane Crystal' will operates between North America and India, carrying ethane that will be used as feedstock for petrochemical production. ABS claimed to be well-positioned to provide support and guidance throughout the vessel's life.

ABS has classed the world's first VLEC

"Using vessels like this VLEC can help make expansion into new and emerging markets scalable and economical for the entire supply chain," said ABS Executive Vice President for Global Marine Kirsi Tikka. "As a trusted advisor, ABS provides support to owners and operators throughout the life of their vessels to advance safer and more sustainable shipping."

Recognising the changing landscape and increased industry focus on gas, ABS launched its Global Gas Solutions team in 2013 to support industry in developing gas-related projects. Thus far, ABS has classed the world's first LPG carrier conversion, the first LNGC - 'Methane Pioneer' - in 1959, as well as the first newbuild LNGC - 'Methane Princess' - in 1964.

ABS claims to be the industry leader in classification of liquefied gas carriers and maintains the largest global orderbook for the classification of LNG-fuelled vessels. ■

Zeebrugge's second jetty comes on stream

Qatari LNG exporter RasGas delivered the first LNG cargo at the Fluxys-operated Zeebrugge LNG terminal's second receiving jetty last month.

The unloading of the vessel formed part of the operational tests required to commission the new facility.

The new jetty has been designed for LNGCs with a capacity from 2,000 cu m up to Q-Flex-sized 217,000 cu m vessels. Using both jetties will also allow two LNGCs to be unloaded or loaded simultaneously.

Following from testing of loading operations for small LNG carriers at the second jetty in recent weeks, the arrival of RasGas'LNGC 'Milaha Qatar' enabled the unloading of large LNGCs to be properly tested, Fluxys said.

"RasGas is proud to facilitate its start-up operations through the delivery of this cargo and we congratulate Fluxys Belgium on the successful unloading of the 'Milaha Qatar' at the second jetty," said Khalid Sultan R Al-Kuwari, RasGas' chief marketing & shipping officer.

"Fluxys Belgium is particularly satisfied with the smooth delivery of the RasGas cargo, allowing us to enter the final stages of operational testing for the second jetty," said Pascal De Buck, Fluxys Belgium CEO. ■

RasGas has supplied the first cargo to Zeebrugge's second terminal

Centrica signs five year LNG deal with JERA

Centrica has signed a five year sales and purchase agreement (SPA) with Japanese utility JERA, the world's largest buyer of liquefied natural gas (LNG).

Under the terms of the SPA, which commences in April, 2019, Centrica will purchase up to six cargoes per annum at the UK's Isle of Grain Terminal and work with JERA to optimise the volume.

This SPA follows a Memorandum of Understanding (MOU) signed earlier between Centrica and JERA to collaborate in the LNG business.

Jonathan Westby, Centrica's co-managing director of energy, marketing & trading, said: "This agreement further develops our presence in the global LNG market. The alliance we have developed with JERA compliments both businesses and this relationship will support the growth of our LNG activities, particularly in the Asian market."

Yuji Kakimi, JERA President, said: "It is a great pleasure that we have concluded this binding agreement with Centrica, the UK's leading energy and services company. Going forward, collaborating with European companies is very important for our LNG procurement and we will pursue expansion of such activities."

In addition, JERA said that it had undertaken its first-ever purchase of LNG from the lower US states.

It acquired the gas from Cheniere Marketing International, but did not give pricing details, according to a Reuters report. The shale gas was shipped on the LNGC 'Oak Spirit'.

The vessel was due to pass through the Panama Canal and arrive at Chubu Electric's Joetsu LNG terminal in early January, a JERA spokesman told Reuters.

JERA was formed in April, 2015, combining the fuel procurement businesses of Tokyo Electric (TEPCO) and Chubu Electric. ■

DSME and Kongsberg in joint development agreement

DSME and Kongsberg Maritime have signed a joint development agreement (JDA) for a new LNG FSRU regasification control system.

As part of the equipment to be delivered for an FSRU currently under construction at the Okpo shipyard in South Korea, DSME will develop a high fidelity dynamic simulator for the regasification plant.

The JDA allows DSME to use Kongsberg Maritime's dynamic process simulator 'K-Spice' and the 'K-Chief' automation and control system for the joint development of the vessel's regasification control system.

Both parties have extensive experience in the field of LNGC control systems.

For example, DSME is nearing delivery of 100 LNGCs, many of them operating with Kongsberg Maritime's LNG control system on board, while Kongsberg's LNGC reference list now includes more than 200 LNG control system installations.

During the company's long-standing partnership in the LNG business, several different concepts for gas handling have been developed. Simulation studies are now established as increasingly important in this field of development, to ensure robust design and to verify design parameters.

"We are very pleased to start a LNG control system JDA with DSME as it represents a continuation and strengthening of a long term and very successful partnership," said Tore Wean, Managing Director, Kongsberg Maritime Korea. "We have supplied ship automation systems to DSME since the 1980's and LNG ship control systems since 2002. We are committed to supporting their technology needs today and in the future."

Vice President at DSME Naval & Energy System R&D, Young Bok Choi, added: "Entering this JDA

Left: Tore Wean, Managing Director, Kongsberg Maritime Korea and right - Young Bok Choi, Vice President at DSME Naval & Energy System R&D

with Kongsberg Maritime as a major partner, and to many shipping companies, a trusted supplier makes good sense for DSME. We believe it will be a very significant stepping stone for further development projects and together we can provide our customers with world leading technology solutions."

Further to the signing of the JDA, DSME and Kongsberg Maritime are also in discussions for possible co-operation on marketing activities of the new LNG FSRU regasification control system. ■

FSRU arrives in Turkey

French energy Giant ENGIE has inaugurated Turkey's first floating LNG import terminal in co-operation with construction companies Kolin and Kalyon.

The terminal is located close to Çakmakli, Izmir.

ENGIE was selected by project developers Kolin and Kalyon to deliver a fast-track FSRU-based solution and the 'Neptune', formerly the 'GDF Suez Neptune', one of the two FSRUs in its fleet, was chosen for the project.

The 145,000 cu m capacity FSRU will act as an LNG receiving and storage facility and will deliver natural gas. The infrastructure, developed by Kolin and Kalyon, includes a jetty and an onshore gas pipeline to connect the terminal to the national gas transport grid, operated by BOTAS.

From final investment decision (FID) to completion, the project development took only 6.5 months.

'Neptune' arrived at ETKI LNG terminal on 11th December, 2016 in a fully loaded condition and proceeded immediately with commissioning operations.

Flexibility

ENGIE explained that the rationale behind the FRSU-based solution chosen by the construction companies lay in its flexibility, cost effectiveness and speed of implementation.

With a capacity of up to 20 mill cu m per day of gas send-out, the new terminal will be a key contributor to Turkey's natural gas security of supply, especially in the winter period.

It will complement Turkey's two existing onshore LNG terminals, thus enhancing the country's diversification of gas import structures, as well as supply sources, ENGIE said. ■

Trinidad in LNGC repair move

On the 25th November, 2016 Europe Technologies Group signed a Memorandum of Agreement (MOU) with the Shipbuilding and Repair Development Company of Trinidad and Tobago Limited (SRDC).

This Trinidad-based shiprepair arrangement will provide both project management and skilled personnel in organising the working party with the shipowner, the shipyard, class societies and other service providers, to achieve the best quality cargo containment system solutions required by LNGC owners.

Trinidad and Tobago is the world's sixth largest exporter of LNG having handled its 3,000th LNG shipment, since LNG exports commenced in 1999 from the twin-island State located in the southern Caribbean.

Two recent events have resulted in an exponential growth requirement for LNGC repairs in the Atlantic Basin. These were: (i) newly expanded Panama Canal, which can now accommodate 92% of the world's LNGC fleet and (ii) the US becoming a net exporter of LNG, European Technologies said.

Europe Technologies is a repairer of membrane LNG cargo containment systems. It claimed experience with membrane technologies, including CS1, NO96 and derivatives, MARK III and derivatives.

The company's qualified technicians and managers are supporting many shipyards worldwide and Europe Technologies is also supplying qualified materials, tooling and equipment for the work party.

SRDC represents some 60 local and global maritime stakeholders. It is the commercial entity of the local shipbuilding and repair maritime cluster established to promote and develop various maritime initiatives within Trinidad & Tobago and globally.

The company is establishing a new $500 mill shipbuilding yard at La Brea, Southwest Trinidad and Tobago. This shipyard is to be built by China Harbour Engineering Company (CHEC) and financed by The Export-Import Bank of China (ChinaExim). ■

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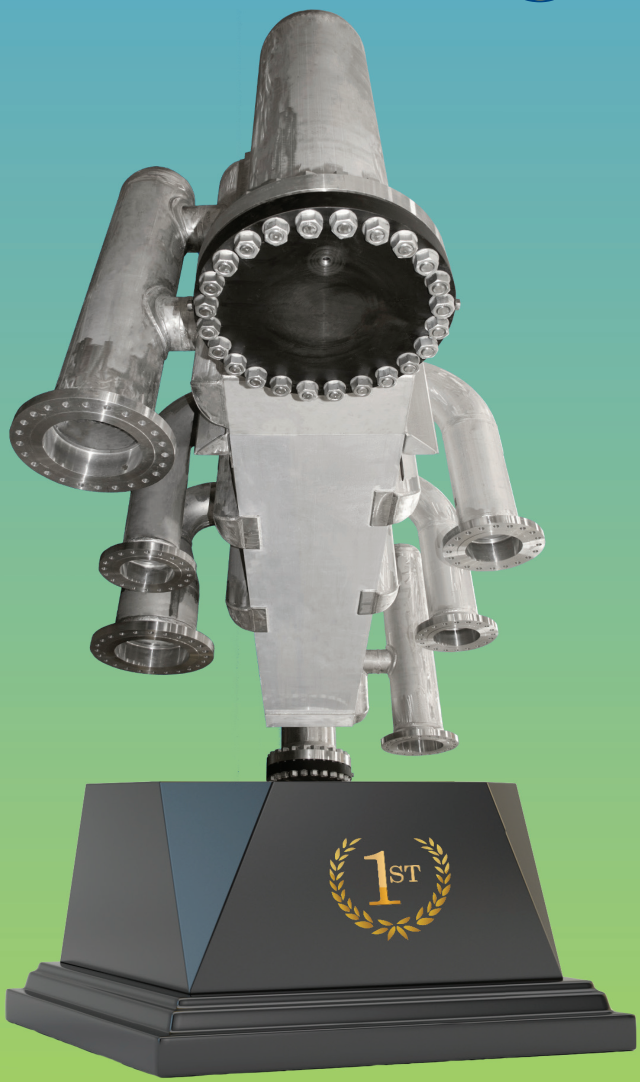

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NEWS NUDGE

LNGC delivered to Petronet charter

A consortium comprising MOL, NYK, "K" Line and the Shipping Corp of India (SCI) took delivery of a new LNGC on 30th November, 2016, in South Korea.

The ‘Prachi’ has a capacity of 173,000 cu m and was built by Hyundai Heavy Industries based on a long-term timecharter to Petronet LNG (PLL).

PLL, India's first importer of LNG, currently brings in 7.5 mill tonnes of LNG per year from Qatar using three LNGCs. ‘Prachi’ is the fourth vessel and will be employed loading cargoes at Australia’s Gorgon LNG project.

SCI has taken over the management of the new LNGC and also manages all of Petronet’s vessels.

Other recent deliveries include the 173,400 cu m ‘Maran Gas Vergina’, believed to be chartered to Woodside and renamed ‘Woodside Rees Withers’, plus the 176,500 cu m ‘Rioja Knutsen’ the second of two LNGCs chartered to Gas Natural.

NYK to own LNGC with KEPCO

Japan’s Nippon Yusen Kaisha (NYK) has agreed to jointly own an LNGC with Kansai Electric Power Co (KEPCO) through a new company.

LNG Sakura Shipping Corp will be 70% owned by Kepco and 30% by NYK.

The 177,000 cu m moss-type LNGC is being built at Kawasaki Heavy Industries’ (KHI) Sakaide shipyard and upon completion in late-2017 will be assigned to the US Cove Point LNG project to transport gas for 20 years.

She will be fitted with a dual-fuel diesel-electric (DFDE) propulsion unit.

“Moreover, the vessel suppresses the boil-off rate of the LNG in the cargo tank to 0.08% of tank volume per day, the world’s lowest level. These advanced technologies mitigate environmental burdens and improve operational efficiency for LNG transportation,” NYK said in a statement.

Teekay to pay dividend

Teekay GP LLC, the general partner of Teekay LNG Partners LP, has declared a cash distribution of $0.14 per unit for the quarter ended 31st December, 2016.

The cash distribution is payable on 10th February, 2017 to all unit holders of record on 3rd February, 2017.

Wärtsilä in MOL LNGC service agreement

Wärtsilä has signed a 10-year maintenance agreement with MOL LNG Transport Europe, an affiliate of the Japanese MOL Group.

‘Spirit of Hela’ is one of two LNGCs to take advantage of Wärtsilä's CBM software

The agreement, which covers two LNGCs, increases the predictability of the vessels' operations, enhances safety and reduces operational costs, the company claimed. It includes all scheduled engine maintenance activities, workshop services and online remote support.

With Wärtsilä's condition based maintenance (CBM) solution, maintenance on the two vessels' engines can be planned based on actual engine condition, rather than following a strict calendar-based schedule.

CBM controls and extends the engine maintenance intervals, reducing operational costs and downtime. The software continuously collects data about the engines' operating parameters and transmits the information in real time to a Wärtsilä service centre for technical expert analysis.

"We see great potential in the growing LNG industry and are very happy to partner with MOL LNG Transport (Europe) to help the company optimise the maintenance of its vessels. A long-term maintenance agreement allows us to plan maintenance activities efficiently, taking into account equipment condition as well as the customer's operating schedule and environment," says Andy Dickinson, Wärtsilä UK managing director.

The LNGCs covered by the agreement, ‘Spirit of Hela’ and ‘Gigira Laitebo’, are each equipped with four Wärtsilä 50DF dual-fuel engine.

"We value Wärtsilä's expertise and knowledge about these engines and therefore see Wärtsilä as a valued working partner for cost effective maintenance of our LNGCs. We also place great importance on maximising our vessels' availability, which will be achieved through this agreement," said Martin Gallacher, deputy general manager, MOL LNG Transport (Europe) Ltd. ■

Maran Gas orders FSRU

Maran Gas Maritime has ordered the company’s first FSRU.

The contract for the 173,400 cu m vessel was awarded to Daewoo Shipbuilding and Marine Engineering (DSME). At the same time, another two options for LNGCs were agreed.

The near $200 mill vessel is expected to be built at the Okpo Shipyard in Geoje and is due for delivery in March, 2020.

"I would like to express my gratitude to Angelicoussis Shipping Group for choosing DSME in such a critical moment," said DSME CEO, Chung Sung-lip, during last month’s contract signing ceremony. "DSME will continue its best to have more contracts to help its financial status."

DSME claimed to have built the world's first LNG regasification vessel in 2005 and will use the technology to build the FSRU.

Maran Gas previously ordered two LNGCs, plus two Very Large Crude Carriers (VLCCs) in June, 2016. ■

Vopak and Exmar firm up FSRU transfer agreement

Following the earlier announcement that Vopak and Exmar had started exploratory discussions on floating LNG storage and regasification, both companies have signed an agreement for Vopak to acquire Exmar’s FSRU business.

The deal also includes the possible co-operation between Vopak and Exmar in future projects.

This agreement envisages the transfer of Exmar's participation in FSRU assets in stages, FSRU projects under development and a corresponding part of the Exmar organisation.

The deal’s finalisation is still subject to consent and co-operation of multiple stakeholders, including current partners in the FSRU's and customary approval from authorities.

As the outcome of the scope and the timing of the completion of the acquisition is currently unknown, no further details were disclosed. Material updates will be communicated later, the companies said. ■

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	Aman Hakata	18,800	LNG	Malaysia - Japan	Yes	Perbadanan/NYK
2000	Triputra (ex Surya Satsuma)	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	Norgas Creation	10,000	LNG/LPG/Ethylene	Worldwide	No	Norgas Carriers
2010	Norgas Innovation	10,000	LNG/LPG/Ethylene	Worldwide	No	Norgas Carriers
2011	Akebono Maru	3,556	LNG	Japan	Yes	Chuo Kaiun
2011	Norgas Bahrain Vision	12,000	LNG/LPG/Ethylene	Worldwide	No	Norgas Carriers
2011	Norgas Conception	10,000	LNG/LPG/Ethylene	Worldwide	No	Norgas Carriers
2011	Norgas Invention	10,000	LNG/LPG/Ethylene	Worldwide	No	Norgas Carriers
2011	Norgas Unikum	12,000	LNG/LPG/Ethylene	Worldwide	No	Norgas Carriers
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
2014	LNG-Oil combi**	2,000	LNG	Germany	Yes	Veka
2014	Short Sea LNG Tanker **	4,000	LNG	Germany	Yes	Veka
2015	10 small carriers TBN**	5,000	LNG			Bimantara Group
2015	Jahre TBN**	6,200	LNG	Norway	Yes	Donsotank/Jahre Marine
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	LNG bunker barge 1†	2,250	LNG	China	Yes	Anhui Huaqiang Natural Gas
2015	LNG bunker barge 2†	2,250	LNG	China	Yes	Anhui Huaqiang Natural Gas
2015	LNG bunker barge 3†	2,250	LNG	China	Yes	Anhui Huaqiang Natural Gas
2015	LNG Inland bunker**	800	LNG	Germany	Yes	Veka
2015	Norgas TBN**	17,000	LNG/LPG/Ethylene	Worldwide		Norgas Carriers
2015	Norgas TBN**	17,000	LNG/LPG/Ethylene	Worldwide		Norgas Carriers
2015	PetroChina TBN	30,000	LNG	China		PetroChina
2015	TBN	14,000	LNG	China	Yes	Zhejiang Huaxiang
2015	TBN 1	27,500	LNG	China?		Danyang?
2015	TBN 2	27,500	LNG	China?		Danyang?
2015	TBN 3	27,500	LNG	China?		Danyang?
2015	Yuan He 1	30,000	LNG	China	Yes	CSR
2016	Dalian TBN	28,000	LNG	China	Yes	Dalian Inteh Group
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	Evergas TBN	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2016	Evergas TBN	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2016	Evergas TBN	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2016	LNG Prime	2,250	LNG	Northwest Europe	Yes	Veka Deen LNG
2016	NYK Bunker barge TBN	5,100	LNG	Northwest Europe	Yes	NYK
2016	Ocean Yield TBN	36,000	Ethane/Ethylene	US - Teeside	Ethane, for Sabic	Gaschem Services
2016	Ocean Yield TBN	36,000	Ethane/Ethylene	US - Teeside	Ethane, for Sabic	Gaschem Services
2016	Ocean Yield TBN	36,000	Ethane/Ethylene	US - Teeside	Ethane, for Sabic	Gaschem Services
2016	Shell Bunker Barge TBN 1	6,500	LNG	Northwest Europe	Yes	Shell
2016	Shell Bunker Barge TBN 2	6,500	LNG	Northwest Europe	Yes	Shell
2016	Shell Bunker Barge TBN 3	6,500	LNG	Northwest Europe	Yes	Shell
2016	Shell Bunker Barge TBN 4	3,000	LNG	Northwest Europe	Yes	Shell
2016	Navigator Aurora	35,000	Ethane/Ethylene	Markus Hood - Stenungsund	Ethane, for Borealis	Navigator
2017	CME TBN†	2,200	LNG	US Coast	Yes	CME
2017	CME TBN†	2,200	LNG	US Coast	Yes	CME
2017	Coral EnergICE	18,000	LNG	Northwest Europe/Baltics	Yes	Anthony Veder
2017	Coralius	5,800	LNG	Northwest Europe/Baltics	Yes, for Skangas	Anthony Veder
2017	Evergas TBN	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2017	Evergas TBN	27,500	LNG/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
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	Navigator Eclipse	35,000	Ethane/Ethylene	US	Ethane	Navigator
2017	Navigator Nova	35,000	Ethane/Ethylene	US	Ethane	Navigator
2017	Navigator Prominence	35,000	Ethane/Ethylene	US	Ethane	Navigator
2018	CME TBN†	2,200	LNG	US Coast	Yes	CME
2018	Evergas TBN	32,000	Ethane/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2018	Evergas TBN	32,000	Ethane/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2018	Evergas TBN	32,000	Ethane/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2018	Evergas TBN	32,000	Ethane/Ethylene	Markus Hook - Rafnes	Ethane, for Ineos	Evergas
2018	Bernhard Schulte TBN	7,500	LNG	Baltic	Yes	Bernhard Schulte

For more information please visit http://small-lng.com
*Includes multi-gas, ethylene and LNG bunker ships with 40,000 cubic metres LNG cargo capacity or less
TBN = To Be Nominated indicates ships are still at construction/planning stage
** = project shelved † =Data to be verified Data last updated = 30 November 2016

Small-LNG.com

WORLD LNG CARRIER ORDERBOOK

Name	Vessel	Status	Yard	Design	Prop.	CBM	Year	LT Charterer	Ship Owner	Hull
Maran Gas Ulysses	LNGC	Order	Hyundai Samho	TZ Mk. III	TFDE	174000	Oct-16	Shell (ex.BG)	MaranGas	S735
KAWASAKI SAKAIDE 1718	LNGC	Order	Kawasaki	Moss	TFDE	180000	Oct-16	Ichtys LNG	K-Line	1718
Maran Gas Roxana	LNGC	Order	DSME	GT NO 96	TFDE	173400	Nov-16	Shell (ex.BG)	MaranGas	2413
SERI CENDERAWASIH	LNGC	Order	Hyundai Heavy	Moss	STRH	150000	Nov-16	Petronas	Petronas	2730
MITSUBISHI NAGASAKI 2310	LNGC	Order	Mitsubishi H.I.	Moss	STRH	155300	Nov-16	Inpex	K-Line	2310
ASIA INTEGRITY	LNGC	Order	Samsung	TZ Mk. III	TFDE	160000	Dec-16	Chevron	Chevron	2069
CESI Qingdao H1716A	LNGC	Order	Hudong	Membrane	TFDE	174000	Dec-16	Sinopec	China Shipping Group / Mitsui OSK	H1716A
Tessala	LNGC	Order	Hyundai H.I.	TZ Mk. III	TFDE	170000	Dec-16	Hyproc	Hyproc	2813
MARAN GAS OLYMPIAS	LNGC	Order	DSME	GT NO 96	MEGI	173400	Dec-16	Shell (ex.BG)	MaranGas	2415
DAEWOO 2451	LNGC	Order	DSME	GT NO 96	TFDE	174000	Jan-17	KOGAS	Hyundai LNG Shipping	2451
Ougarta	LNGC	Order	Hyundai H.I.	TZ Mk. III	TFDE	170000	Feb-17	Hyproc	Hyproc	2814
SERI CEMPAKA	LNGC	Order	Hyundai	Moss	STRH	150000	Feb-17	Petronas	Petronas	2731
TORBEN SPIRIT	LNGC	Order	DSME	GT NO 96	MEGI	173400	Feb-17	Available	Teekay LNG	2411
HUDONG-ZHONGHUA H1718A	LNGC	Order	Hudong	Membrane	TFDE	174000	Mar-17	Sinopec	China Shipping Group / Mitsui OSK	H1718A
DAEWOO 2452	LNGC	Order	DSME	GT NO 96	TFDE	174000	Mar-17	KOGAS	Hyundai LNG Shipping	2452
DAEWOO 2416	LNGC	Order	DSME	GT NO 96	MEGI	173400	Mar-17	Shell	Teekay LNG	2416
Asia Venture	LNGC	Order	Samsung	TZ Mk. III	TFDE	160000	Apr-17	Chevron	Chevron	2070
SM Eagle	LNGC	Order	DSME	GT NO 96	TFDE	174000	Apr-17	KOGAS	Korea Line Corporation	2449
KAWASAKI SAKAIDE 1731	LNGC	Order	Kawasaki H.I.	Moss	TFDE	177000	Apr-17	Kansai Electric	Mitsui OSK	1731
CASTILLO DE MERIDA	LNGC	Order	Imabari	TZ Mk. III	MEGI	178000	May-17	Gas Natural	Elcano	8177
DAEWOO 2450	LNGC	Order	DSME	GT NO 96	TFDE	174000	May-17	KOGAS	Korea Line Corporation	2450
JMU TSU 5070	LNGC	Order	JMU	SPB	TFDE	165000	May-17	Tokyo Gas	Mitsui OSK	5070
HUDONG-ZHONGHUA H1717A	LNGC	Order	Hudong	Membrane	TFDE	174000	Jun-17	Sinopec	China Shipping Group / Mitsui OSK	H1717A
HUDONG-ZHONGHUA H1719A	LNGC	Order	Hudong	Membrane	TFDE	174000	Jun-17	Sinopec	China Shipping Group / Mitsui OSK	H1719A
Castillo De Caldelas	LNGC	Order	Imabari	TZ Mk. III	MEGI	178000	Jun-17	Gas Natural	Elcano	8188
JMU TSU 5071	LNGC	Order	JMU	SPB	TFDE	165000	Jul-17	Tokyo Gas	NYK	5071
Bishu Maru	LNGC	Order	Kawasaki	Moss	TFDE	164700	Aug-17	Chubu Electric	K-Line	1713
DAEWOO 2421	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Aug-17	Yamal LNG	Dynagas	2421
Seri Camar	LNGC	Order	Hyundai H.I.	Moss	STRH	150000	Aug-17	Petronas	Petronas	2732
DAEWOO 2417	LNGC	Order	DSME	GT NO 96	MEGI	173400	Aug-17	Shell	Teekay LNG	2417
SAMSUNG 2153	LNGC	Order	Samsung	KC-1	TFDE	174000	Sep-17	KOGAS	SK Shipping	2153
SAMSUNG 2154	LNGC	Order	Samsung	KC-1	TFDE	174000	Sep-17	KOGAS	SK Shipping	2154
DAEWOO 2426	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Sep-17	Yamal LNG	MOL/CSDC	2426
Flex Endeavour	LNGC	Order	DSME	GT NO 96	MEGI	172400	Oct-17	Available	John Fredriksen	2447
Flex Enterprise	LNGC	Order	DSME	GT NO 96	MEGI	172400	Oct-17	Available	John Fredriksen	2448
HUDONG-ZHONGHUA H1720A	LNGC	Order	Hudong	Membrane	TFDE	174000	Oct-17	Sinopec	China Shipping Group / Mitsui OSK	H1720A
JMU TSU 5072	LNGC	Order	JMU	SPB	TFDE	165000	Oct-17	Tokyo Gas	Mitsui OSK	5072
MITSUBISHI NAGASAKI 2316	LNGC	Order	Mitsubishi Nagasaki	Moss	STRH	153000	Oct-17	LMT (TEPCO)	NYK	2316
SK RESOLUTE	LNGC	Order	Samsung	TZ Mk. III	XDF	182000	Oct-17	Total	SK Shipping / Marubeni	2081
DAEWOO 2423	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Oct-17	Yamal LNG	Teekay/CLNG	2423
DAEWOO 2422	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Dec-17	Yamal LNG	Dynagas	2422
Seri Cemara	LNGC	Order	Hyundai H.I.	Moss	STRH	150000	Dec-17	Petronas	Petronas	2735
DAEWOO 2453	LNGC	Order	DSME	GT NO 96	MEGI	173400	Dec-17	Shell	Teekay LNG	2453
Teekay NB-5 Shell	LNGC	Order	DSME	GT NO 96	MEGI	173400	Dec-17	Shell	Teekay LNG	
DAEWOO 2425	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Dec-17	Yamal LNG	Teekay/CLNG	2425
DAEWOO 2424	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Dec-17	Yamal LNG	MOL/CSDC	2424
DAEWOO 2435	LNGC	Order	DSME	GT NO 96	MEGI	173000	Jan-18	Repsol	BW Gas	2435
DAEWOO 2460	LNGC	Order	DSME	GT NO 96	MEGI	174000	Jan-18	BP	Chandris	2460
SAMSUNG 2107	LNGC	Order	Samsung	TZ Mk. III	MEGI	174000	Jan-18	Available	Flex LNG	2107
Mitsui Cameron SHI NB 1	LNGC	Order	Samsung	Mark III Flex	TFDE	177000	Jan-18	Mitsui & Co	Mitsui OSK	2148
SAMSUNG 2149	LNGC	Order	Samsung	Mark III Flex	TFDE	177000	Jan-18	Mitsui & Co	Mitsui OSK	2149
Mitsui KHI NB 1	LNGC	Order	Kawasaki H.I.	Moss	TFDE	155000	Jan-18	Mitsui & Co	Mitsui OSK	1728
SK AUDACE	LNGC	Order	Samsung	TZ Mk. III	XDF	182000	Jan-18	Total	SK Shipping / Marubeni	2080
HUDONG-ZHONGHUA H1664A	LNGC	Order	Hudong	GT No 96	TFDE	174000	Jan-18	Shell (ex.BG)	Teekay/CETS/CLNG	H1664A

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 = 5 January 2017

Fearnley LNG

Name	Vessel	Status	Yard	Design	Prop.	CBM	Year	LT Charterer	Ship Owner	Hull
PAN ASIA	LNGC	Order	Hudong	GT No 96	TFDE	174000	Jan-18	Shell (ex.BG)	Teekay/CETS/CLNG	H1663A
DAEWOO 2443	LNGC	Order	DSME	GT NO 96	MEGI	173400	Feb-18	BP	BP	2443
HYUNDAI ULSAN 2800	LNGC	Order	Hyundai H.I.	TZ Mk. III	XDF	174000	Feb-18	Shell (ex.BG)	GasLog	2800
JMU TSU 5073	LNGC	Order	JMU	SPB	TFDE	165000	Feb-18	Tokyo Gas	Mitsui OSK	5073
MITSUBISHI NAGASAKI 2324	LNGC	Order	Mitsubishi H.I.	Moss	STaGE	165000	Feb-18	Mitsubishi Corp	NYK	2324
Teekay NB-6	LNGC	Order	DSME	GT NO 96	MEGI	173400	Feb-18	Shell	Teekay LNG	2454
DAEWOO 2442	LNGC	Order	DSME	GT NO 96	MEGI	173400	Mar-18	BP	BP	2442
DAEWOO 2436	LNGC	Order	DSME	GT NO 96	MEGI	173000	Mar-18	REPSOL	BW Gas	2436
HYUNDAI ULSAN 2801	LNGC	Order	Hyundai H.I.	TZ Mk. III	XDF	174000	Mar-18	Total	GasLog	2801
SAMSUNG 2130	LNGC	Order	Samsung	TZ Mk. III	XDF	174000	Mar-18	Shell (ex.BG)	GasLog	2130
SAMSUNG 2150	LNGC	Order	Samsung	Mark III Flex	TFDE	177000	Mar-18	Mitsui & Co	Mitsui OSK	2150
SAMSUNG 2108	LNGC	Order	Samsung	TZ Mk. III	MEGI	174000	Mar-18	Available	Flex LNG	2108
KAWASAKI SAKAIDE 1720	LNGC	Order	Kawasaki	Moss	TFDE	164000	Apr-18	Chubu Electric	K-line	1720
DAEWOO 2441	LNGC	Order	DSME	GT NO 96	MEGI	173400	Apr-18	BP	BP	2441
Mitusi NB 2 Cameron	LNGC	Order	Kawasaki H.I.	Moss	TFDE	155000	Apr-18	Mitsui & Co	Mitsui OSK	1729
MOL E.On.	LNGC	Order	DSME	GT NO 96	TFDE	179900	Apr-18	Junipher (E.On)	Mitsui OSK	TBN
DAEWOO 2464	LNGC	Order	DSME	GT No 96	MEGI	173400	May-18	BP	Chandris	2464
DAEWOO 2432	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	May-18	Yamal LNG	MOL/CSDC	2432
DAEWOO 2455	LNGC	Order	DSME	GT NO 96	MEGI	173400	May-18	Available	Teekay LNG	2455
DAEWOO 2430	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	May-18	Yamal LNG	Teekay/CLNG	2430
DAEWOO 2444	LNGC	Order	DSME	GT NO 96	MEGI	173400	Jun-18	BP	BP	2444
DAEWOO 2427	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Jun-18	Yamal LNG	Dynagas	2427
DAEWOO 2458	LNGC	Order	DSME	GT NO 96	MEGI	173400	Jun-18	Shell (ex.BG)	MaranGas	2458
MITSUBISHI NAGASAKI 2325	LNGC	Order	Mitsubishi H.I.	Moss	StaGE	165000	Jun-18	Mitsubishi Corp	NYK	2325
HUDONG-ZHONGHUA H1665A	LNGC	Order	Hudong	GT No 96	TFDE	174000	Jun-18	Shell (ex.BG)	Teekay/CETS/CLNG/BW	H1665A
DAEWOO 2445	LNGC	Order	DSME	GT NO 96	MEGI	173400	Jul-18	BP	BP	2445
DAEWOO 2446	LNGC	Order	DSME	GT NO 96	MEGI	173400	Aug-18	BP	BP	2446
MITSUBISHI NAGASAKI 2323	LNGC	Order	Mitsubishi H.I.	Moss	STaGE	180000	Aug-18	Osaka Gas	Mitsui OSK	2323
DAEWOO 2431	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Sep-18	Yamal LNG	Teekay/CLNG	2431
MOL NB 2 Freeport	LNGC	Order	Kawasaki H.I.	Moss	TFDE	177000	Oct-18	Chubu Electric FP 2	Mitsui OSK	1734
MITSUBISHI NAGASAKI 2326	LNGC	Order	Mitsubishi H.I.	Moss	STaGE	180000	Oct-18	Chubu Electric FP 3	NYK	2326
DAEWOO 2428	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Nov-18	Yamal LNG	Dynagas	2428
DAEWOO 2429	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Dec-18	Yamal LNG	Dynagas	2429
NYK NB 2 Freeport	LNGC	Order	Kawasaki H.I.	Moss	TFDE	177000	Dec-18	Chubu Electric FP 4	Mitsui OSK	1735
MITSUBISHI NAGASAKI 2327	LNGC	Order	Mitsubishi H.I.	Moss	STRH	180000	Dec-18	Chubu Electric FP 5	NYK	2327
MITSUBISHI NAGASAKI 2321	LNGC	Order	Mitsubishi H.I.	Moss	StaGE	177000	Dec-18	Mitsui & Co Cameron 3	NYK	2321
DAEWOO 2456	LNGC	Order	DSME	GT NO 96	MEGI	173400	Jan-19	Shell (ex.BG)	MaranGas	2456
DAEWOO 2459	LNGC	Order	DSME	GT NO 96	MEGI	173400	Jan-19	Available	MaranGas	2459
HUDONG-ZHONGHUA H1666A	LNGC	Order	Hudong	GT No 96	TFDE	174000	Jan-19	Shell (ex.BG)	Teekay/CETS/CLNG/BW	H1666A
DAEWOO 2433	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Jan-19	Yamal LNG	Teekay/CLNG	2433
SK Shipping SK E&S NB1	LNGC	Order	HHI	GTT Mark III Flex	XDF	180000	Feb-19	SK E&S	SK Shipping	
HYUNDAI SAMHO S856	LNGC	Order	Hyundai Samho	TZ Mk. III	MEGI	174000	Feb-19	BP	Teekay	S856
SAMSUNG 2131	LNGC	Order	Samsung	TZ Mk. III	XDF	174000	Mar-19	Shell (ex. BG)	GasLog	2131
HYUNDAI SAMHO S857	LNGC	Order	Hyundai Samho	TZ Mk. III	MEGI	174000	Mar-19	Available	Teekay	S857
DAEWOO 2457	LNGC	Order	DSME	GT NO 96	MEGI	173400	Apr-19	Shell (ex.BG)	MaranGas	2457
SK Shipping SK E&S NB2	LNGC	Order	HHI	GTT Mark III Flex	XDF	180000	May-19	SK E&S	SK Shipping	
MITSUBISHI NAGASAKI 2322	LNGC	Order	Mitsubishi H.I.	Moss	StaGE	177000	Jun-19	Mitsui & Co Cameron 4	Mitsui OSK	2322
DAEWOO 2489	LNGC	Order	DSME	GT NO 96	DFDE	173400	Nov-19	Available	BW Gas	2489
DAEWOO 2434	LNGC	Order	DSME	GT NO 96	TFDE - Azipod	172410	Nov-19	Yamal LNG	Teekay/CLNG	2434
Maran Gas NB1	LNGC	Order	DSME	GT NO 96	MEGI	173400	Nov-19	Available	MaranGas	2466
Maran Gas NB2	LNGC	Order	DSME	GT NO 96	MEGI	173400	Nov-19	Available	MaranGas	2467
Trinity J/V (Mitsui & Co.)	LNGC	Order	Imabari	GTT Mark III Flex	MEGI	178000	Jan-20	Mitsui & Co Cameron 5	K-Line	TBN
IMABARI SAIJO 8200	LNGC	Order	Imabari		MEGI?	178000	Oct-21		Trinity LNG Transport SA	8200

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 = 5 January 2017