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BUMI ARMADA DEVELOPS FLNG SOLUTION

Malaysia's Bumi Armada has received an approval in principle from classification society ABS for a floating liquefied natural gas (FLNG) solution. Bumi Armada said in a statement the solution brings LNG to the market in a "fast-track, cost-effective, flexible, and reliable manner." This new FLNG concept incorporates a newly built barge-based liquefaction unit and the utilization of existing LNG carriers for storage, according to the firm. Moreover, Bumi Armada has developed the barge-based liquefaction unit for a standardized LNG design capacity based on having a modularized and repeatable compact design, it said. This concept allows for a phased approach to deploy parallel liquefaction units to match any required capacity for the monetization of gas, eliminating the need for large and costly onshore infrastructure, Bumi Armada said. In addition, reusing LNG carriers is expected to provide a safe and quality option for LNG storage, the firm said. Bumi Armada said it "firmly believes that this streamlined approach will yield substantial time and cost savings." The Malaysian firm recently joined forces with a unit of Indonesia's state-owned energy firm Pertamina and also natural gas trader Davenergy Mulia Perkasa to develop a floating LNG production project based on the resources from the Madura gas field and its surrounding fields. Under the deal, Bumi Armada and Pertamina International Shipping will design, engineer, construct, install, commission, hook up, and operate

a floating natural gas liquefaction and storage facility, together with an LNG carrier. The partners expect first shipment of LNG to take place three years after making a final investment decision. Source : www.naturalgasworld.com

DEUTSCHE REGAS OFFERS SHORT-TERM REGAS CAPACITY

LNG terminal operator Deutsche ReGas is offering short-term regasification capacity at the planned FSRU-based LNG import terminal in the German port of Mukran. The German firm led by Ingo Wagner and Stephan Knabe said in a statement that it expects these capacities to be available from April 2024 at the "Deutsche Ostsee" terminal in the industrial port of Mukran. "In a digital auction starting on November 16, 2023, market participants can bid for slots for short-term regasification capacities in 2024 at the planned Mukran-based terminal," it said. In August, the LNG terminal operator said that companies have booked all of the offered regasification capacities at the terminal. Moreover, this followed the conclusion of the binding open season as part of the second phase of the "Deutsche Ostsee" LNG terminal on the island of Rügen."After the long-term capacities were fully booked in August of this year, we would now like to tender short-term capacities in the market supporting energy security and price stability," Wagner said in the statement.

Transgas Power on way to Germany

Deutsche ReGas officially launched its Lubmin FSRU-based LNG import terminal in January this year. Deutsche ReGas chartered the 2009-built 145,000-cbm, FSRU Neptune, from French energy giant TotalEnergies for this project. The 5.2 bcm facility is the first private LNG terminal in Germany besides the government-backed facilities. The company also confirmed in June that it plans to install the 174,000-cbm FSRU Transgas Power, owned by Dynagas, to serve the LNG import terminal in the port of Mukran. According to its AIS data, Transgas Power recently visited Sempra's Cameron LNG terminal in Louisiana and is expected to arrive in Lubmin around October 26. This FSRU will work along the FSRU Neptune in Mukran as part of the second phase of the LNG terminal. Also, Deutsche Regas plans to move the FSRU Neptune from Lubmin to the Mukran port later this year.

Winter of 2023/24

The second phase of the terminal will have a capacity of up to 13.5 bcm per year, Deutsche ReGas said. Besides the two units, the terminal will connect to the gas transmission network via a new Mukran-Lubmin connecting pipeline.Germany's Gascade, which built the Lubmin LNG pipeline, is in charge for this pipeline as well. According to Deutsche Regas, the firm expects to launch the FSRU-based facility in the winter of 2023/24. This terminal has faced strong opposition from environmental groups in Germany. In addition to its LNG business, Deutsche Regas plans to produce green hydrogen in Lubmin. The company recently started the front-end engineering and design (FEED) phase for a large-scale electrolysis plant. This plant will separate water into hydrogen and oxygen with the help of renewable electricity. Source : www.lngprime.com

FRATELLI COSULICH TAKES DELIVERY OF FIRST LNG BUNKERING SHIP IN CHINA

China's Nantong CIMC Sinopacific Offshore & Engineering (CIMC SOE) has handed over the first LNG bunkering vessel to Italian shipping group Fratelli Cosulich. The shipbuilder said in a statement on Thursday it has hosted the delivery ceremony for the 5,300-dwt dual-fueled LNG bunkering vessel, Alice Cosulich. Alice Cosulich completed its sea trials in August and is the first of two sister vessels CIMC SOE built for Fratelli Cosulich. The shipbuilder launched this ship in March and installed the vessel's two type C bi-lobe LNG tanks in November last year. In addition, the vessel features a cargo handling system by Wartsila and a Schottel propulsion system. Alice Cosulich will serve a charter deal Fratelli Cosulich signed with Dutch LNG supplier Titan. This 113 meters long vessel with a capacity of 8,200 cbm of LNG and 500 cbm of MGO is expected to start operating in Europe in the fourth quarter of this year, Titan previously said. As per the sister ship, CIMC SOE launched Paolina Cosulich in June. CIMC SOE previously said it expects to deliver this vessel by the end of the year. Source：www.lngprime.com

CNOOC TESTS GIANT BINHAI LNG TANK

China National Offshore Oil Company (CNOOC) has hydro tested one of the six giant LNG storage tanks at its Binhai LNG import terminal in Jiangsu. The state-owned energy giant is building six LNG tanks with a capacity of 270,000 cbm under the Phase I expansion project of its "Yancheng Green Energy Port". These are the world's largest LNG storage tanks, such as those five at CNOOC's Zhuhai LNG import terminal in Guangdong, according to CNOOC. The tanks add to the already four existing tanks with a capacity of 220,000 cbm at the LNG terminal located in Yancheng Binhai Port Industrial Park, forming the largest storage LNG base in China, the firm claims. In September last year, CNOOC completed raising the roofs on all of the six 270,000-cbm LNG storage tanks. CNOOC Gas & Power, a unit of CNOOC, said in a statement on Wednesday that the hydraulic test of Tank No. 9 was recently completed. This procedure, also known as hydrostatic testing, ensures LNG tank safety and reliability.The successful completion of the test lays a solid foundation for the tank to achieve mechanical completion, CNOOC Gas & Power said. CNOOC Gas & Power said it will now work to complete the tank wall plates and hydro testing of other five tanks. In August, CNOOC received the 30th cargo of liquefied natural gas at its Jiangsu-Binhai LNG import terminal since September last year. The LNG terminal received its 15th cargo in May this year, while LNG producer Qatargas, a unit of QatarEnergy, delivered the first LNG cargo on September 26, 2022. The terminal currently has a nominal capacity of three million tonnes of LNG per annum and can receive vessels with a capacity of between 80,000 cubic meters and 266,000 cubic meters.Source：www.lngprime.com

GLOBAL ENERGY CONSUMPTION TO INCREASE THROUGH 2050, OUTPACE EFFICIENCY GAINS

Global energy consumption will likely increase through 2050 and outpace advances in energy efficiency, the U.S. Energy Information Administration said on Wednesday. Global population growth, increased regional manufacturing and higher living standards will contribute to the increase in consumption, the EIA said. Global carbon dioxide emissions from energy will increase by 2050 in most scenarios outlined by the EIA. Non-fossil fuel-based resources, including nuclear and renewables, will produce more energy through 2050, but that growth will likely not be sufficient to reduce global energy-related CO2 emissions under current laws and regulations, the EIA said. Global electric-power generating capacity by 2050 is expected to increase by a range of 50% to 100%, and electricity generation by 30% to 76%, the EIA said. Zero-carbon technologies account for most of the growth in both global capacity and generation. Electricity generation from renewables and nuclear could provide as much as two-thirds of global electricity generation by 2050, according to the EIA. Battery storage capacity is due to grow significantly, increasing from less than 1% of global power capacity in 2022 to a range of 4% to 9% of global power capacity by 2050. The Middle East and North America is expected to increase natural gas production and exports to meet growing demand, and Western Europe and Asia will remain natural gas importers. Energy demand from China, India, Southeast Asia, and Africa will incentivize crude oil and natural gas production. Source : www.lngprime.com

CAPITAL PRODUCT PARTNERS HINTS AT LNG PIVOT

A company filing on the US Securities and Exchange Commission (SEC) said the company is considering changing its business focus to concentrate on the LNG carrier market. For now, the effort remains exploratory and no decision has been made. Controlled by Greek magnate Evangelos Marinakis and his son Miltiadis, Capital Product Partners currently owns a fleet of 23 ships including seven LNG carriers. Both Mr Marinakises, senior and junior, are the only individuals named and are designated as the 'Reporting Persons' in the SEC filing. In the SEC filing, the company said, "the Reporting Persons intend to explore the possibility of proposing to the Issuer that it consider changing its business focus to concentrate on the liquefied natural gas carrier (LNGC) market. In connection with such possible change in business focus, the Reporting Persons intend to take exploratory steps, which may include but are not limited to, assessing LNGC market opportunities in relation to the Issuer's existing business (including the possibility of acquiring certain LNGC vessels from affiliates of the Reporting Persons), assessing debt and equity funding sources for any LNGC vessel acquisitions and considering a change in the Issuer's corporate form. As of the date of this amendment to the Reporting Persons' Schedule 13D, the Reporting Persons have not made any decision with respect to such potential proposal and the Reporting Persons may or may not ultimately pursue such potential proposal." In February, Capital Product Partners welcomed its seventh LNG carrier into the fleet. 174,000-m^3 Asterix I was purchased from South Korea's Hyundai Heavy Industries. Six of the company's LNG carriers have been chartered out to energy majors

BP, Hartree, Cheniere and Engie. An affiliate, Capital Gas, has nine LNG carriers on order. Last week, the Capital Product Partners' board of directors added an LNG specialist, former Inpex executive Atsunori Kozuki, to the company's board. Mr Kozuki, a veteran of over three decades, previously served as principal project developer and general manager for Japan's Inpex Corp, in charge of LNG business development and marketing.And in July 2023, a related Evangelos Marinakis-controlled business entity, Capital Maritime, placed an order for two 22,000-m^3 liquefied CO2 carriers with HD Hyundai Mipo Dockyard, the largest of that vessel type ordered to date. Source : www.rivieramm.com

QATARENERGY SEALS HUGE LNG SUPPLY DEAL WITH TOTALENERGIES

State-owned LNG giant QatarEnergy and France's TotalEnergies signed two long-term LNG sale and purchase deals for the supply of up to 3.5 million tons per annum of LNG. Qatar's energy minister and chief executive of QatarEnergy, Saad Sherida Al-Kaabi, and Patrick Pouyanne, chairman and CEO of TotalEnergies, signed the SPAs during a ceremony in Doha, according to a statement by QatarEnergy issued on Wednesday. Under the SPAs, LNG will be delivered ex-ship to the Fos Cavaou LNG receiving terminal in southern France, with deliveries expected to start in 2026 for a term of 27 years, QatarEnergy said. The LNG volumes will be sourced from the two joint ventures between QatarEnergy and TotalEnergies that hold interests in Qatar's North Field East (NFE) and North field South (NFS) projects. TotalEnergies' partnership in the North Field LNG expansion projects is made up of a 6.25 percent share in the NFE project and a 9.375 percent share in the NFS project. Together, NFE and NFS form the wider North Field expansion project to increase LNG production from the North Field, adding 48 mtpa to Qatar's export capacity and bringing it to 126 mtpa.

France's energy security

"These two new agreements we have signed with our partner TotalEnergies, demonstrate our continued commitment to the European markets in general, and to the French market in particular, thus contributing to France's energy security," Al-Kaabi said. He said that Qatar had been supplying the French market with LNG since 2009. "Our commitment to ensure continued and reliable supplies of energy to Europe and the rest of the world is underpinned by our substantial and ongoing investments across the entire gas value chain," Al-Kaabi said. "Our efforts span from bolstering production capacity in Qatar to the development of the Golden Pass LNG export project in the United States, in addition to our commitments in various LNG receiving terminals in Europe, including the Montoir-de-Bretagne LNG terminal in France," Al-Kaabi added.

More LNG supply deals

QatarEnergy recently officially started building its North Field expansion project. Pouyanne and the CEOs and senior executives of QatarEnergy's other partners in the expansion project attended the event. Besides TotalEnergies, QatarEnergy's partners in the project are Shell, ConocoPhillips, ExxonMobil, Eni, Sinopec, and CNPC. Prior to this deal, QatarEnergy signed huge LNG

supply deals with China's CNPC and Sinopec. These deals are for 27 years and 4 mtpa of LNG.QatarEnergy also signed a 15-year deal to supply LNG to Bangladesh's state-owned Petrobangla, and it signed a 15-year deal with US energy firm ConocoPhillips to supply Germany with LNG. The firm is expected to announce additional LNG supply deals by the end of this year. Source : www.lngprime.com

VENTURE GLOBAL LNG SAYS CALCASIEU PASS LIQUEFACTION BLOCKS 7-9 READY FOR SERVICE

US LNG exporter Venture Global is seeking approval from the US FERC to put in service liquefaction blocks 7-9 at its Calcasieu Pass plant in Louisiana. Calcasieu Pass produced its first LNG on January 19, 2022, moving from FID to LNG production in 29 months, and the first commissioning cargo left the facility on March 1. In July last year, Venture Global received FERC approval to introduce fluids into the block 9 liquefaction modules at its Calcasieu Pass plant. With this, Venture Global received approvals to commission all the 18 modular units configured in 9 blocks. However, the US firm has not yet declared commercial operations at the facility and some of its customers launched arbitration proceedings due to the delay. Calcasieu Pass has contracts with Shell, BP, Edison, Galp, Repsol, PGNiG, Sinopec's unit Unipec, as well as CNOOC.

Blocks 7-9

In May last year, Venture Global sought approval from FERC to put in service the first four liquefaction blocks at its Calcasieu Pass plant in Louisiana and in July the firm requested approval to put in service the fifth and the sixth liquefaction blocks. Venture Global Calcasieu Pass said in a filling dated October 10 that the FERC staff issued approval to introduce hazardous fluids to liquefaction block 7 A/B on May 25, 2022; to liquefaction block 8 on June 10, 2022; and to liquefaction block 9 on July 22, 2022. According to the company, Calcasieu Pass produced first LNG on June 1, 2022 from block 7A; on June 2, 2022 from block 7B; on June 13, 2022 from block 8A; on June 14, 2022 from block 8B; on July 31, 2022 from block 9A; and on July 30, 2022 from block 9B. "Given the completion of these specific commissioning operations, Calcasieu Pass respectfully requests authorization to place blocks 7-9 in-service," it said. Calcasieu Pass requests approval of this in-service request by no later than October 17, 2023. "As additional systems and components of the terminal are completed and fully commissioned, Calcasieu Pass will be submitting additional requests to place those specific systems and components in-service," the firm said.

"Phased commissioning process"

Eearlier this year, Venture Global said that "Calcasieu Pass's commissioning process has looked different than any other American LNG facility to come before it." "In particular, because of its modular, midscale design and on-site power generation (among other reasons), the facility requires substantial testing and a phased commissioning process before it can be expected to be fully operational and confirmed to be prepared to reliably meet its long-term contractual obligations," Venture Global said.

While Calcasieu Pass is able to produce LNG, it remains in the commissioning phase because it continues to face "periodic reliability challenges impacting the facility," it said. This issue was demonstrated and reported through the failure of the reliability test of the power island reported to FERC last Fall, Venture Global said.

LNG plants

Calcasieu Pass is Venture Global's first LNG export plant. In March, the firm took a final investment decision for the second phase of its Plaquemines LNG export plant in Louisiana. The full project, including the second stage, will have a capacity of 20 mtpa coming from 36 modular units, configured in 18 blocks. Venture Global also expects to start construction of its CP2 LNG facility later this year following receipt of FERC authorization. To date, Venture Global sold 9.25 Mtpa of CP2 LNG's 20 Mtpa nameplate capacity under 20-year sales and purchase agreements. The CP2 LNG plant will be located next to Venture Global's existing Calcasieu Pass liquefaction plant in Louisiana. It will have 18 liquefaction blocks, each with a capacity of about 1.1 Mtpa of LNG, but also four 200,000-cbm full containment LNG storage tanks. Besides these three projects, Venture Global is also developing the Delta LNG export facility with a nameplate capacity of 20 Mtpa in Plaquemines Parish, Louisiana.It previously said it plans to build the facility in two phases, each consisting of 10 Mtpa. Source : www.lngprime.com

MOL FORMS INDONESIAN LNG MANNING FIRM

Japan's shipping giant MOL and PT MCS Internasional have established a new liquefied natural gas (LNG) carrier manning company in Indonesia. Established in August, PT McMOL Crewing International plans to begin operations in April 2024, and will primarily allocate seafarers for MOL's fleet of LNG carriers, according to a statement by MOL. In operating vessels transporting LNG, it is essential to recruit, train, and retain top-quality seafarers who are qualified to handle LNG, MOL said. Yet even as the use of LNG expands on the back of growing needs for cleaner energy, the world is facing a shortage of seafarers, the shipping firm noted. Since 1986, when MOL teamed up with the Humpuss Group to form PT Humolco LNG Indonesia, a ship management company, it has also focused on training Indonesian seafarers, MOL said. MOL added the establishment of this new manning company will contribute to stably securing seafarers. The shipping has a huge fleet of LNG carriers and manages its LNG vessels through six companies around the globe, in Tokyo, London, Hong Kong, Jakarta, Muscat (Oman), as well as Arzew (Algeria). According to MOL's annual report for the period ending March 31, 2023, the company's fleet of consists of 94 LNG carriers, 2 LNG bunkering vessels, and also 4 FSUs and FSRUs. Source : www.lngprime.com

CHINA'S GAS IMPORTS UP 8% IN JANUARY-SEPTEMBER

Chinese natural gas imports via pipeline and in the form of LNG during January-September were 87.76mn tonnes, up 8.2% year/year, according to customs department data published on October 13. Additionally, the customs department reported that China's gas imports in September alone came in at 10.15mn tonnes. Source : www.naturalgasworld.com

SAMSUNG HEAVY SECURES ORDER FOR ONE LNG CARRIER

South Korean shipbuilding giant Samsung Heavy Industries has secured a new order to build one liquefied natural gas (LNG) carrier. Samsung Heavy said on Tuesday it will build the LNG carrier for an unidentified owner in Asia for 350.8 billion won ($260 million). The shipbuilder will deliver the LNG carrier by September 2026. Samsung Heavy did not provide any additional information regarding the contract. Last year, Samsung Heavy secured orders for 36 LNG carriers, marking a record for the largest number of orders for LNG carriers in a year for the shipbuilder. In 2023, the shipbuilder and Japan's JGC won a contract from Malaysia's Petronas to build the first nearshore FLNG with a capacity of about 2 million tonnes. In addition to the $1.5 billion FLNG contract, it also won orders for six LNG carriers worth about $1.5 billion. Four out of these LNG carriers are for Japan's MOL and two for US-based Chevron. Samsung Heavy secured a contract from MOL in April to build two LNG carriers for about $258.5 million per vessel and two LNG carriers in February for about $248 million per vessel. Also, the Chevron LNG carriers announced in June are each worth about $254.5 million. MOL is also the Asian owner behind the newest order, sources told LNG Prime. Wit this contract, MOL ordered five LNG carriers at Samsung Heavy this year. Samsung Heavy has secured a total of $6.6 billion in orders this year, achieving 69 percent of its annual target of $9.5 billion. The shipbuilder is expected to secure more orders for LNG carriers by the end of this year as part of the second phase of the giant Qatari shipbuilding program. As of August 31, Samsung Heavy had 85 LNG carriers in its order backlog worth about $18.4 billion. Source : www.lngprime.com

HUDONG-ZHONGHUA DELIVERS LNG CARRIER TO CSSC SHIPPING

China's Hudong-Zhonghua has delivered the 174,000-cbm liquefied natural gas (LNG) carrier, Wen Cheng, to CSSC Shipping, the financial leasing unit of China State Shipbuilding Corporation. The CSSC-controlled shipbuilder said it broke a new record by delivering the LNG carrier three and half months ahead of schedule. Hudong-Zhonghua held Wen Cheng's naming ceremony on Tuesday and will officially hand over the ship on October 11. The shipbuilder started building this 174,000-cbm vessel in December 2021 and laid the keel in September last year. In August, Wen Cheng completed its gas trials in only five days. Prior to this, the LNG carrier completed its sea trials in less then two days. Hudong-Zhonghua says the quay construction cycle of the ship classed by LR and CCS took more than 7 months, the fastest in the world for large LNG carriers. This is the third of four LNG carriers CSSC Shipping ordered at Hudong-Zhonghua. The shipbuilder already built two 174,000-cbm LNG carriers for CSSC Shipping as part of a contract signed in December 2019, while the two firms signed a shipbuilding contract for the third LNG carrier in July 2021. The fourth vessel, LNG Geneva, is also part of the original 2+1+1 contract signed in 2019. This vessel recently completed both its sea and gas trials in five and a half days, setting a record for the shortest trials of a large LNG carrier, Hudong-Zhonghua claims. The first vessel Mu Lan serves PetroChina under a charter deal, while the

second vessel Gui Ying, works for Geneva-based trader Gunvor. Hudong-Zhonghua did not mention who is the charterer of Wen Cheng. Sources said that Wen Cheng will serve PetroChina and LNG Geneva will serve Gunvor under charter deals. Part of Hudong's fourth-generation Changxing series, the 295 meters long LNG carriers feature WinGD's X-DF dual-fuel engines and GTT's NO96 L03+ containment system.

LNG carrier deliveries

The Chinese shipbuilder said this is the fourth LNG carrier it has delivered this year as it works to double its LNG shipbuilding capacity. Hudong-Zhonghua plans to deliver two more LNG vessels by the end of this year for a total of six ships, setting a new record for the number of LNG carriers delivered in a year. At present, there are 12 LNG vessels under construction at the yard, Hudong-Zhonghua said. Source : www.lngprime.com

SPANISH LNG IMPORTS, RELOADS DOWN IN SEPTEMBER

Spanish liquefied natural gas imports and reloads dropped in September compared to the same month last year, according to LNG terminal operator Enagas. LNG imports decreased by 21.7 percent to about 19.2 TWh in September and accounted for 65.9 percent of the total gas imports. In August, LNG imports reached some 22.3 TWh. Including pipeline imports from Algeria, France, and Portugal, gas imports to Spain reached about 30.8 TWh last month, a drop from some 35.2 TWh in September last year, Enagas said in its monthly report. Moreover, national gas demand in September dropped by 6.3 percent year-on-year to some 26.4 TWh. Demand for power generation declined by 36.1 percent year-on-year to about 10 TWh last month, while conventional demand rose by 31.4 percent to 16.3 TWh, the LNG terminal operator said. Enagas operates a large network of gas pipelines and has four LNG import plants in Barcelona, Huelva, Cartagena, and Gijon.
It also owns 50 percent of the BBG regasification plant in Bilbao and 72.5 percent of the Sagunto plant, while Reganosa operates the Mugardos plant. In August, Spanish power group Endesa delivered the first commercial cargo to the El Musel LNG terminal in Gijon. Enagas awarded the logistics services contract to Endesa in July and it also recently completed the sale of a 25 percent stake in the El Musel LNG terminal to Reganosa.

Nigeria and Algeria biggest LNG suppliers

The seven operational Spanish LNG regasification terminals, unloaded 23 cargoes last month, four cargoes less compared to September 2022, according to Enagas. Nigiera was the biggest LNG supplier to Spain in September with about 6.19 TWh, up from 5.33 TWh last year, followed by Algeria with 5.05 TWh, a rise from 0.96 TWh last year. The US was the biggest LNG supplier to Spain in August. Prior to that, Russia was the biggest supplier for three months in a row. Spanish LNG terminals received 3.81 TWh from the US in September, down from 6 TWh last year, while Russian volumes reached 3.25 TWh, a drop from 5.35 TWh last year, the data shows. Other LNG sources in September include France and Qatar.

LNG reloads down

Spanish LNG terminals loaded about 0.62 TWh in September, down 42 percent compared to some 1.07 TWh in September 2023 and also down from 2.25 TWh in August. The Barcelona LNG terminal reloaded about 0.30 TWh of LNG, followed by the Sagunto terminal with about 0.16 TWh. On the other hand, the number of truck loads at the LNG terminals rose by 26.2 percent year-on-year to 923, the data shows. The Huelva LNG terminal completed 214 truck loads in September, while the Barcelona and Cartagena terminal completed 174 and 149 truck loads, respectively. Source : www.lngprime.com

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