



## **SOUTH KOREA'S KMARIN FLOATS 15-YEAR-OLD LNG CARRIER FOR SALE BUT ASSET SELLER'S EXPECTATIONS AND BUYERS' PRICING SEEM SOME WAY APART**

South Korean shipowner and manager Kmarin Group has put one of its LNG carriers up for sale at a strong price. Brokers and other shipowning sources said the company is offering the 154,996-cbm, dual-fuel diesel-electric (DFDE) Kmarin Diamond (ex-British Diamond, built 2008) for sale. They said the membrane-type vessel — the only LNG carrier listed as being under Kmarin's control — is being touted around the market for offers in the region of \$120m to \$130m. Some said the LNG carrier had been on and off the market before this. Potential buyers said this is a very strong price for a ship of this age, capacity and type. TradeWinds has made multiple attempts to contact Kmarin — also known as Kukje Maritime Investment Corp — about the vessel. South Korean sources indicated that Kmarin may be keen to offload the single LNG carrier to concentrate on its tanker business. Clarksons Shipping Intelligence Network lists the owner-manager as controlling four VLCCs, nine aframax tankers, three bulk carriers and two container ships. The Kmarin Diamond is on bareboat charter to energy major vessel operator BP Shipping. The ship is one of four groundbreaking LNG carriers ordered by BP in 2004 as they were among the first DFDE vessels to be contracted as charterers looked to improve the efficiencies of their ships. The so-called Gem-



wary of putting too many resources into regas units. “We really see it as constriction from both ends,” he said. Shipowners on the panel, moderated by Howe Robinson Partners UK senior LNG broker Debbie Turner, were bullish on LNG shipping demand. Enoizi said GasLog sees fleet growth continuing to point to the new volumes of liquefaction expected to be sanctioned.

### **Steaming**

Capital Product Partners chief commercial officer Spyros Leoussis, who detailed that Capital Gas has 11 LNG carriers trading and 10 on order, said fleet replacement will be one of the key drivers going forward. But GTT chairman and chief executive Philippe Berterottiere said there is such demand for LNG — citing the 50 mtpa of new liquefaction expected to be sanctioned in the coming year — that the time for replacing the older steam turbine ships has not yet come. He said this will likely be in the next decade. Capital has been what Leoussis described as “an opportunistic” but not a strategic buyer of steamships. He said: “The ships are needed so there is place for them” — but longer term, the phase-out should move a bit faster than we are seeing today. Panos Mitrou, global gas segment director at Lloyd’s Register, said that while efficient LNG carriers are being built, “substantial interventions” will be needed to meet the requirements of incoming regulations. He listed green propulsion systems, onboard carbon capture systems and larger vessels as among those to be considered. Mitrou said the steamships could play a role in downstream infrastructure and channelling these incoming LNG volumes to new markets. “They have quite a future ahead,” he said. “But by the end of this decade, these ships will be facing severe challenges on compliance.”

source : [www.tradewindnews.com](http://www.tradewindnews.com)

## **MODERN LNG CARRIERS MERIT RATES OF OVER \$100,000 A DAY, SAYS MARINAKIS**

The leaders of Cap-ital Mari-time & Trading Corp and Angelicoussis Group dis-cuss the chal-leges and oppor-tun-ities in LNG ship-ping at annual meet. New LNG carriers warrant charter rates of over \$100,000 per day but are currently being penalised in the market due to the current high cost of their construction, Capital Maritime & Trading Corp founder and chairman Evangelos Marinakis said. Marinakis was speaking at the World LNG Summit & Awards in a rare two-person shipowner panel session alongside another prominent Greek owner, Angelicoussis Group president and chief executive Maria Angelicoussis. He said the LNG ships building now are penalised in the market. Marinakis said the rate difference between a tri-fuel diesel-electric LNG carrier and its modern two-stroke cousin is about \$40,000 per day, with the gulf to the steam turbine vessels at around \$80,000 daily. “I think the minimum rate in order to have guidance should exceed \$100,000 per day,” he said, highlighting that the delivered cost of an LNG newbuilding is closer to \$280m. “I think it is fully justified to have these sorts of rates to make sense. We don’t see rates going down,” he added. In a session moderated by Lloyd’s Register chief commercial officer Andrew McKeran, Angelicoussis and Marinakis spoke on a wide range of issues from vessel requirements to alternative fuels, Chinese shipbuilding, incoming regulations and geopolitics. Angelicoussis said the Angelicoussis Group is positive on LNG in the short, medium and long term. Among the demand drivers, she cited the 180m tonnes of newly sanctioned LNG









2022 with a price tag of about \$470 million. The Chinese firm placed the most recent order for two LNG carriers worth some \$470 million on May 26. According to DSIC, the LNG carriers will be 295 meters long and 46.4 meters wide, with a design draft of 11.5 meters and a speed of 19.5 knots. The vessels feature the latest LNG dual-fuel low-speed main engine with integrated ICER system, a reliquefaction unit, and GTT’s Mark III Flex membrane containment system, it said. CMES will take delivery of all of these LNG carriers during 2025–2027. source : [www.lngprime.com](http://www.lngprime.com)

## PERU LNG TERMINAL SENT FOUR CARGOES IN NOVEMBER

Peru LNG’s liquefaction plant at Pampa Melchorita has shipped four liquefied natural gas cargoes in November, the same number of shipments as in the previous month. According to data by state-owned Perupetro, during October the LNG plant sent three shipments to the UK and one to Spain. The shipments loaded onboard the LNG carriers Kool Baltic, SM Albatross, Maran Gas Amphipolis, and Maran Gas Olympias equal about 272,021 tonnes, the data shows. These four LNG cargoes loaded at the Peru LNG plant in October compare to four cargoes in November last year, while Peru LNG shipped four cargoes (252,309 tonnes) in October this year. Peru LNG shipped 49 LNG cargoes during January–November, compared to 46 shipments during the same period last year, the Perupetro data shows. The 4.45 mtpa LNG plant has sent about 746 LNG cargoes since 2010, according to the data. However, some of the same shipments in the list are included two or three times. US-based Hunt Oil holds a 50 percent operating stake in the Pampa Melchorita LNG plant, while SK and Marubeni have 20 percent and 10 percent, respectively. LNG giant Shell also holds a 20 percent stake and takes all the volumes produced at the facility. source : [www.lngprime.com](http://www.lngprime.com)

## GREECE’S ELPEDISON TESTING MARKET INTEREST FOR THESSALONIKI FSRU



Elpedison, a power firm owned by Greece’s Hellenic Petroleum and Italy’s Edison, is inviting companies willing to secure capacities at its planned Thessaloniki FSRU project to submit their bids. The firm announced on Monday it has launched the non-binding phase of the market test for the FSRU project, where all interested parties are invited to express their interest in contracting capacities and services at the planned LNG terminal. The project will include two permanently moored vessels, one floating storage and regasification unit (FSRU) and one floating storage unit (FSU), located in Thermaikos Gulf, according to Elpedison. “Thessaloniki





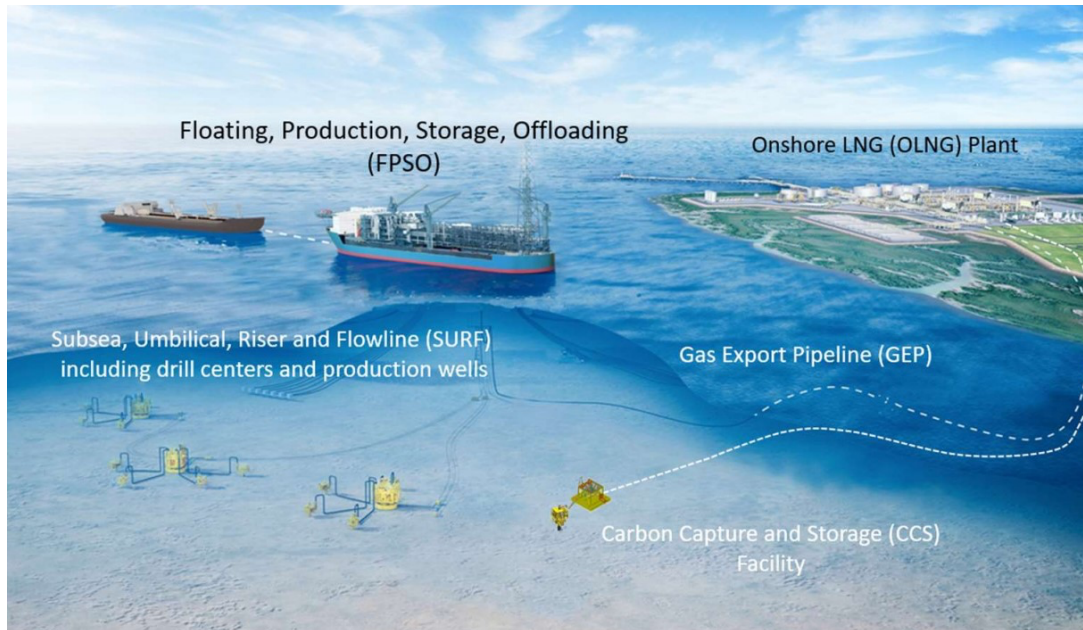




as Singapore's LNG firm AG&P kicked off commissioning activities in April at the country's first import terminal following the arrival of the 137,500-cbm FSU Ish at the terminal's jetty in Batangas Bay. source : www.lngprime.com

## INPEX GETS APPROVAL FOR ABADI LNG PROJECT IN INDONESIA

Japan's Inpex said it has received written approval for the revised plan of development for the Abadi LNG project in Indonesia. Earlier this year, Inpex Masela on behalf of the joint venture with LNG giant Shell submitted the revised plan to the Indonesian government, adding a carbon capture and storage (CCS) component. "This marks the official approval of the authorities for the



revised POD," Inpex said in a statement. In October, Shell completed the sale of its 35 percent stake in Indonesia's Masela PSC, which includes the planned Abadi LNG project, to Pertamina Hulu Energi and Petronas Masela. Indonesia's Pertamina now owns a 20 percent stake and Malaysia's Petronas has a 15

percent stake in the PSC. Inpex holds 65 percent operating interest in Masela PSC and is the operator of the Abadi LNG project. The Japanese company said in the statement that the project is the first in which CCS-related costs are eligible for recovery based on the PSC scheme that governs crude oil and natural gas upstream operations in Indonesia. Inpex said the approval of the revised POD paves the way for the firm and its partners to "fully mobilize the project as a clean project in support of the energy transition."

### **Resuming activities**

The Inpex-operated project has seen many changes over the years and initially, the development of the Masela offshore block involved a floating LNG plant, while it now includes a 9.5 mtpa onshore LNG plant with an estimated cost of about \$20 billion. Going forward, Inpex and its partners will pursue the revision of the PSC to incorporate CCS into the contractual scope of work and resume project operations including on-site activities and prepare for FEED work, the firm said. "Thereafter, the JV will implement the project with the aim of reaching a final investment decision (FID) and production startup at an early stage after completing the necessary preparations including marketing and financing activities," Inpex said. Inpex previously said it









by 2050, there is much less chance of global success. As a result, oil and gas demand in 2050 is likely to be higher than the net zero pathways suggest. Second, even in falling oil and gas demand scenarios, new production is needed to address natural decline. A difficult-to-manage risk in the energy transition is that investment falls in what are perceived as sunset industries (fossil fuels) before new technologies (renewables) are sufficiently well developed to replace them. As a result, there is a good chance that offshore oil development in Namibia will follow a path similar to that of Guyana, although, as the discoveries push at the edges of deep and ultra deep water drilling, greater technical complexity may mean slower development.

### **Fiscal terms**

Development depends, as ever, on agreeing mutually-beneficial fiscal terms. Namibia would not be the first country to overreach, resulting in delays. Tanzanian LNG is a prime example. Under John Magufuli, Tanzania's LNG ambitions were stalled for years as no agreement on development could be reached between the development companies and the government, despite major gas finds being made between 2011 and 2016. With a new government in place following the death of Magufuli in 2021, it still took until May this year for a deal to be agreed with developers Equinor, Shell and ExxonMobil. And, even now, a final investment decision is not expected until 2025, suggesting completion of the planned onshore LNG plant will not be complete until after 2030.

### **Consider LNG from the outset**

However, Namibia is looking at oil not LNG and to ignore the latter would be a mistake. Gas is expected under almost all energy transition scenarios to see a longer period of growth, a later peak in demand and a less rapid decline. Gas, as a cleaner and chemically much simpler fuel than oil, also has better decarbonisation options, through for example the control of methane leakage, more efficient usage and Carbon Capture and Storage (CCS). This is already recognised in the strategies of the oil majors which have made the discoveries in Namibia and have the capacity to develop them. Shifting to a production mix in which gas plays a greater role is a key means of achieving their corporate emissions reductions goals. And, given the limited onshore markets for gas in southern Africa, either on or offshore LNG production should be a first rather than secondary consideration. Coupled with CCS, carbon dioxide could be stored offshore or used for enhanced oil recovery. As a result, LNG production should be at the forefront of development concepts from the initial design phase.

### **Gas plans often come as an afterthought**

Brazil's deepwater oil developments are a good, or rather bad, example of gas taking second place to oil. Huge quantities of gas are reinjected into the country's prolific offshore oil fields, while Brazil suffers a gas deficit on land, which has to be made up with imports from Bolivia and as LNG. When rainfall is low, Brazil has to scramble for LNG. Imports of LNG jumped more than threefold to 10.1 bn m<sup>3</sup> in 2021 from 2020 as hydro power, which dominates the country's electricity mix, delivered significantly below average output. Development of gas pipelines to bring reinjected offshore gas to shore has been slow, owing to the focus on increasing oil output. Guyana is another example. The development of its oil resources has been











