QatarEnergy announces long-term LNG supply agreement with China’s Guangdong Energy Group

*** Under the sale and purchase agreement with Guangdong Energy Group, Ras Laffan Liquefied Natural Gas Company will supply 1mn tons per year of LNG to China over a 10-year period, beginning 2024**

QatarEnergy announced that its LNG producing affiliate, Ras Laffan Liquefied Natural Gas Company, entered into a long-term sale and purchase agreement (SPA) with Guangdong Energy Group Natural Gas Company (GEG) for the supply of 1mn tons per year of LNG to China over a 10-year period starting in 2024.

Commenting on the occasion, HE the Minister of State for Energy Affairs Saad Sherida al-Kaabi, also the President and CEO of QatarEnergy said, “We are pleased to enter into this long-term supply agreement with Guangdong Energy Group and look forward to establishing a successful and mutually rewarding relationship. This agreement further demonstrates

our commitment to continue to be a trusted and reliable energy partner for the People's Republic of China."
Al-Kaabi expressed his thanks to Sheikh Khalid bin Khalifa al-Thani, the CEO of Qatargas, and the working teams from both sides for the successful conclusion of this new long-term LNG supply agreement.
Deliveries of LNG under the SPA will utilise Qatar's fleet of conventional, Q-Flex and Q-Max LNG vessels, allowing GEG to receive LNG primarily at the Dapeng and Zhuhai LNG Receiving Terminals.

QatarEnergy, Pavilion Energy, Chevron launch GHG reporting methodology for delivered LNG cargoes

Doha: QatarEnergy, Pavilion Energy Trading & Supply Pte. Ltd.1 (Pavilion Energy), and Chevron U.S.A. Inc (Singapore branch) (Chevron) yesterday announced they have jointly published a quantification and reporting methodology to produce a statement of greenhouse gas emissions (SGE) for delivered LNG cargoes.

This is the first such published methodology that will be applied to sales and purchase agreements (SPAs), specifically the executed SPAs by Pavilion Energy with QatarEnergy and Chevron. Intended for wide adoption, the methodology provides a calculation and reporting framework for greenhouse gas (GHG) emissions from wellhead-to-discharge terminal, based on industry standards.

The SGE Methodology was developed by a team of technical specialists representing Pavilion Energy, QatarEnergy and Chevron, supported by global sustainability consultancy Environmental Resources Management (ERM). It aims to create a common standard for the measurement, reporting and verification of GHG emissions associated with producing and delivering an LNG cargo to drive greater transparency and enable stronger action on GHG reduction measures.

Independent academic experts, commercial institutions and verification bodies have reviewed the SGE methodology. It complements key industry efforts being developed in parallel, specifically the Monitoring, Reporting and Verification (MRV) and GHG Neutral Framework by the International Group of LNG Importers (GIIGNL).

“We share a common and decisive vision with QatarEnergy and Chevron to advocate for transparency and accuracy of GHG emissions associated with delivered LNG cargoes,” said Alan Heng, Interim Group CEO of Pavilion Energy, “The SGE Methodology sets a strong tone for increased accountability of emissions along the LNG value chain, paving the way for more decarbonisation strategies towards a lower carbon future.”

Ahmad Saeed Al-Amoodi, QatarEnergy’s Executive Vice President of Surface Development and Sustainability, said: “This joint effort to develop a greenhouse gas quantification and reporting methodology is part of a series of projects and initiatives that reflect QatarEnergy’s commitment to reduce GHG emissions and to de-carbonize the LNG value chain. We are

proud to join hands with our partners Pavilion Energy and Chevron in this landmark project."

"We jointly developed this LNG carbon-footprinting methodology for delivered cargoes to help advance a standard for GHG product-level accounting," said Bruce Niemeyer, Chevron's vice president of strategy and sustainability. "This methodology is expected to enhance transparency, improve accuracy and build stakeholder confidence in data reliability to help advance net zero ambitions."

Rising LNG imports provide scant relief for Europe power crisis

Reuters/London

Europe's imports of liquefied natural gas (LNG) are picking up

as winter approaches but there is little relief for the region’s power crunch because competition with Asia for supplies is so intense.

Power and gas demand has spiked due to low inventories and surging requirements in Asia and Europe as economies recover from the Covid-19 crisis.

Cold weather in the northern hemisphere has also increased demand for power, prompting buyers to be more active on the spot market to bridge supply gaps and driving LNG prices to record levels.

Wholesale gas markets are reflecting that, with benchmark European TTF values hitting all-time highs.

Asian spot LNG prices hit a record peak of above $56 per million British thermal units (mmBtu) earlier this month.

Prices have since retreated slightly to around $30 per mmBtu, but are still up 500% from last year.

Northwest Europe’s LNG imports over the January-September period were down by 5.5mn tonnes from levels seen a year earlier, but have picked up since the start of the winter gas season which runs from October to March, when there is higher demand.

Competition between Europe and Asia and a spike in global gas prices saw European TTF and Asian JKM LNG benchmark prices chase each other higher, with the latter priced at a premium to TTF, drawing more supply to Asia rather than Europe.

As a result, northwest Europe is unlikely to see a strong flurry of LNG supply to help ease prices.

“Our latest balance calls for net LNG deliveries to Northwest Europe, in Belgium, France, Netherlands and the UK, this winter to average 114mn cubic metres per day, roughly in line with year ago levels of 116mn cubic metres per day,” said Luke Cottell, LNG analyst at S&P Global Platts.

Asia is home to the world’s three biggest LNG buyers, China, Japan and South Korea, who tend to keep buying throughout the winter. European gas storage levels were well below where they should have been at the start of the winter season on October1, pushing European buyers to compete aggressively for

spot cargoes.
“Competition from Asia for flexible Atlantic Basin LNG is expected to be robust, with Northwest Europe facing challenges in competing with largely price insensitive Northeast Asian buyers who have continued to procure spot cargoes despite record high JKM,” said Samer Mosis, manager of global LNG analytics at S&P Global Platts.
Usually, when Asian LNG and TTF prices are so closely coupled, US LNG sellers would favour sending cargoes to Europe to save shipping time and costs, said Robert Songer, LNG analyst at commodities intelligence firm ICIS.
But that is not the case this year.
ICIS’s LNG Edge shipping platform shows that China, Japan and South Korea have all imported more US LNG than in any previous year, while Atlantic Basin importers like Spain, France and the UK have all seen smaller portions of US cargoes.
North American LNG exporters have been adding to capacity because of demand in major Asian economies.
US exports of LNG are expected to average 9.7bn cubic feet per day (Bcf/d) this year, 3.2 Bcf/d higher than the 2020 record high of 6.5 Bcf/d.
This year, the United States’ exports of LNG are also expected to exceed its annual pipeline exports of natural gas for the first time, the US Energy Information Administration (EIA) said in a report.
But with the bulk of US exports destined for Asia, Europe’s best hope for significantly boosting supplies may be a mild winter in China, which is hard to predict, analysts said.
“As long as unexpected cold from the La Nina (weather) system doesn’t see China keep outbidding Europe for cargoes, there is certainly some avenues for more gas to land in Europe in the coming months,” said Ryan McKay, commodity strategist at TD Securities.

الوسيط الأميركي يلتقي مسؤولين لبنانيين ويبحث ملفي الطاقة وترسيم الحدود

التقى الوسيط الأميركي الجديد في عملية التفاوض غير المباشر بشأن ترسيم الحدود البحرية الجنوبية بين لبنان وفلسطين المحتلة آموس هوكستاين، اليوم الأربعاء، بعدد من المسؤولين اللبنانيين الكبار وبحث معهم ملفي الطاقة وترسيم الحدود.

والتقى هوكستاين برئيس الجمهورية ميشال عون ورئيس الوزراء نجيب ميقاتي ورئيس البرلمان نبيه بري.

واستقبل عون، قبل ظهر اليوم، هوكستاين، الذي يعد أيضًا كبير مستشاري وزارة الخارجية الأميركية لأمن الطاقة، بحضور السفيرة الأميركية دوروثي شيا، وعرض معه مسار عملية التفاوض بشأن ترسيم الحدود البحرية مع الاحتلال الاسرائيلي والتوجهات المقبلة في هذا الملف، بحسب ما أفاد بيان الرئاسة اللبنانية.

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Lebanese Presidency (@LBpresidency) *October 20, 2021* –

وقال المستشار الإعلامي في رئاسة الجمهورية رفيق شلالا، لـ"العربي الجديد"، إن "الجانبين بحثا مسار المفاوضات والتوجهات في المرحلة المقبلة على صعيد ملف ترسيم الحدود البحرية"، مشيرًا إلى أن الرئيس عون أكد على ضرورة استئناف التفاوض غير المباشر وتعويله على دور الوسيط الأميركي الذي أكد أنه سيبذل جهده ويواصل اتصالاته بغية تكوين المعطيات الكاملة.

وعلى صعيد التغييرات التي ستطرأ على الوفد اللبناني المفاوض بعد إحالة رئيسه العميد الركن الطيار بسام ياسين إلى التقاعد، أكد شلالا أن "لا شيء رسميا بعد بخصوص هذا الموضوع".

من جهته، أشار رئيس مجلس النواب نبيه بري إلى أن لبنان أمام فرصة جديدة لاستئناف المفاوضات في الناقورة (جنوب لبنان)، مع المساعي الأميركية الجديدة التي تبذل في هذا الإطار.
وبحسب بيان المكتب الإعلامي لرئيس البرلمان، فإن بري أكد خلال لقائه الوسط الأميركي أهمية استثناء لبنان من ضوابط "قانون قيصر" في موضوعي استجرار الغاز المصري والكهرباء من الأردن، مشيراً إلى أن هوكستاين عكس للرئيس بري أجواء تفاؤلية بالتقدم إيجاباً حول هذين العنوانين، كما جرى التأكيد على اتفاق الإطار الذي أعلن في أكتوبر/تشرين الأول من العام الماضي.
وفي سياق آخر، وقع بري، اليوم، القانون الرامي إلى تعديل قانون انتخاب أعضاء مجلس النواب وأحاله إلى رئاسة مجلس الوزراء مع التأكيد على ضرورة استعجال إصداره، كما دعا إلى عقد اجتماع لهيئة مكتب مجلس النواب يوم الإثنين المقبل تمهيداً لعقد جلسة تشريعية.

وعلم "العربي الجديد" من مصدر عسكري مطلع على الملف، أن "الوفد اللبناني المفاوض دخل في إجازة منذ فترة"، مشيرًا إلى أن "الملف وعلى الرغم من أهميته والمكاسب الاقتصادية للبنان منه، إلا أنه ليس على رأس أولوية الاهتمامات عند المسؤولين السياسيين، وهو ما ينعكس سلباً على البلاد، ولا سيما أن العدو لا يضيع وقتاً أو فرصة لاستغلال الوضع المتوتر على الساحة اللبنانية الداخلية والصراعات المستمرة والمتجددة بينما هو يعتدي على حقوق لبنان النفطية وعلى مرأى من الجميع".
وكان الاحتلال الإسرائيلي قد منح أخيرًا شركة "هاليبرتون" الأميركية

عقداً للتنقيب عن النفط في منطقة تقع على الحدود البحرية المتنازع عليها، ما دفع لبنان إلى الطلب من مجلس الأمن "التأكد من أن أعمال تقييم التنقيب لا تقع في منطقة متنازع عليها بين لبنان والاحتلال، بغية تجنب أي اعتداء على حقوق وسيادة لبنان، إضافة إلى منع أي أعمال تنقيب مستقبلية في المناطق المتنازع عليها تجنباً لخطوات قد تشكل تهديداً للسلم والأمن الدوليين".

ويقول الخبير في شؤون الطاقة الدولية رودي بارودي، لـ"العربي الجديد"، إن "أي بحث عبر الوسيط الأميركي في أي فكرة اقتصادية أو تجارية غير وارد قبل ترسيم الحدود بشكل محترف ورسمي، لكن في المقابل، يمكن الاتفاق مع شركة خاصة مستقلة لتنفيذ أعمال التنقيب في حال التثبت من وجود نفط أو غاز، وذلك كما حصل في حقل الخفجي المشترك بين الكويت والسعودية، على أن يأخذ كل طرف حصّته".
ويرى بارودي أنه "من المبكر الحديث عن أي خطوة طالما أن ترسيم الحدود البحرية لم ينجز"، مشيراً إلى أن "هناك حقوقا للبنان يجب أن يحصل عليها"، مؤكداً أن "المطلوب اليوم تأمين الدعم الكامل للجيش اللبناني عند استئناف المفاوضات التي يجب أن تحكمها فقط الاتفاقيات الدولية واتفاقية الأمم المتحدة لقانون البحار والتي تصبّ في صالح لبنان وتعطيه حقه الكامل والعادل".
ويؤكد بارودي أن "الاجتهادات الدولية تعطي لبنان حقه، خصوصاً أن القرارات لا تقيم وزناً للجزر الصغيرة، ولا تعتبر قادرة على دفع أو إزاحة أي خط بحري واحد مقابل الخط الآخر، وبالتالي فإن الصخور والجزر الصغيرة لا تؤخذ بعين الاعتبار عند ترسيم الحدود، وهو ما يعطي لبنان مساحة هي من حقه ومعترف بها دولياً".
ويلفت الخبير الدولي إلى أن "لبنان عام 2010 اعتمد من أجل البدء بالترسيم 61 متراً في البحر بدءاً من رأس الناقورة جنوباً، أما العدو الإسرائيلي فقد اعتمد في العام الذي يليه 37 متراً في البحر"، مشيراً إلى أن الطرفين "أخطآ في البدء بالترسيم من خط بحري (أوف شور)، وعليهما اعتماد خط الناقورة البري الفاصل، وبالتالي فإن الطرفين مجبران على ترسيم الحدود وتحديد خطوط جديدة"، فيما أكد أن "الموقف الأميركي لا يمكنه إلا اقتراح خط عادل ومنصف وتبعاً لقانون الأمم المتحدة للبحار، إذ لا يمكنه الالتفاف حوله".
ويرى بارودي أن "موقف لبنان قوي بحقوقه التي تحفظها له القوانين والاتفاقيات الدولية، بيد أنه ضعيف على مستوى الداخل نتيجة الصراع والمناكفات السياسية التي تحرم اللبنانيين من فرص كثيرة وثروات هي حق لهم، وهو ما حرمهم سابقاً من خط الغاز العربي الذي كان من

شأنه أن يحلّ أزمة الكهرباء".

ويشير إلى أن "المسّ بالوفد اللبناني العسكري أو تغيير أعضائه سيكون بمثابة ضربة قوية ترتد سلباً على موقف لبنان في المفاوضات وتلحق به خسائر جمّة بالنظر إلى أهمية ترسيم الحدود اقتصادياً".
وما زال الرئيس اللبناني يرفض منذ إبريل/نيسان الماضي التوقيع على تعديل المرسوم الذي يصحح حدود لبنان البحرية ومن شأنه أن يعطي البلاد الحق بالتفاوض على نسبة من حقوقه من حقل كاريش الذي يستثمره الاحتلال الإسرائيلي.

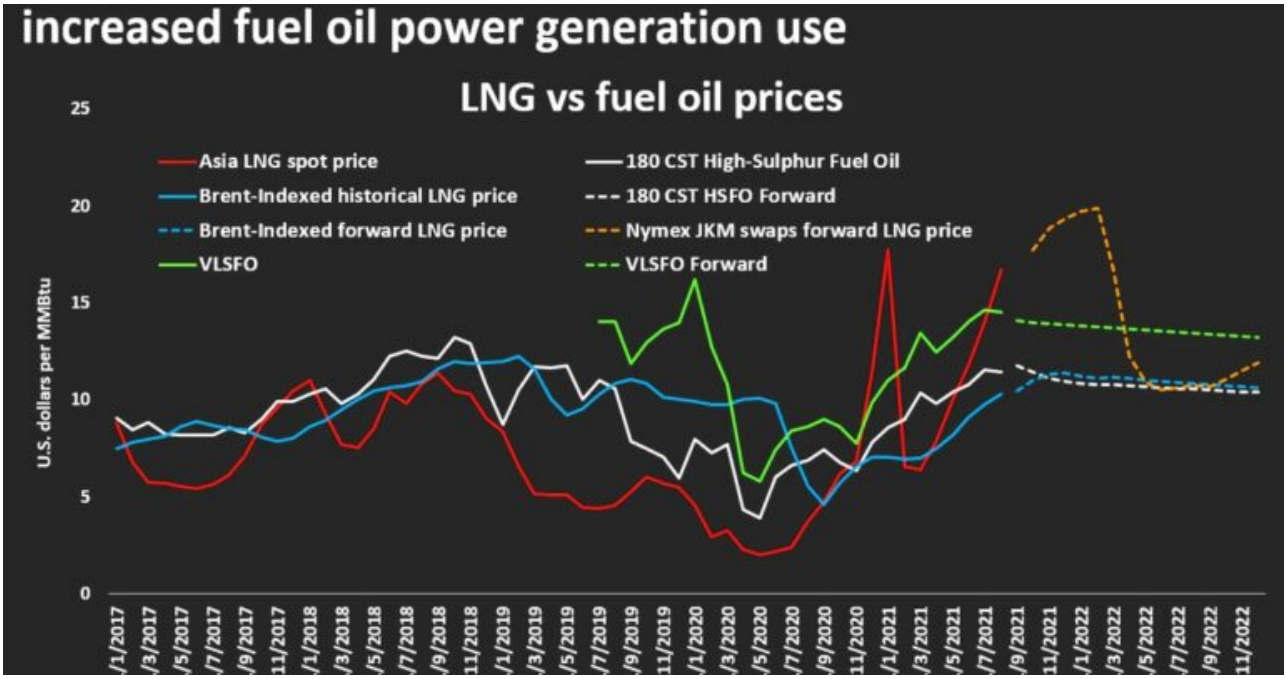
Natural gas answer to energy crunch, transition, says GECF secretary-general

Gas Exporting Countries Forum (GECF) secretary-general Yury Sentyurin said the current energy crunch around the world and the intensifying climate change debate serve to highlight the serious need to embed natural gas as part of a long-term

solution to energy market stability and transition.
He was addressing a session at the Russian Energy Week (REW) held in Moscow from October 13 to 15.
Joining the panel on 'International Energy Organisation Dialogue: Predicting the Development of Energy and Global Markets', Sentyurin stressed that "gas was, is, and will remain the most realistic option to attain the energy transition, spur economic growth and social progress."
He said, "The long-term solution provided by natural gas is available in the GECF's flagship publication of Global Gas Outlook (GGO) 2050, which foresees natural gas becoming the primary energy mix of the world by 2050 and increasing its present share from 24% to 27%."
The GGO, featuring multiple contexts on gas' growth and role in the energy mix, is now underpinned by very strong analytical effort on new scenarios, such as the Energy Transition Scenario, and Hydrogen Scenario, to name a few. The latest findings will be launched in the 6th edition of the GECF Global Gas Outlook 2050 in February 2022.
"We are championing gas for post-Covid-19 recovery and achieving the UN Sustainable Development Goals. The gas industry is of course also looking at innovation to transform this natural resource into a sustainable fuel, using such methods as green LNG, carbon capture, hydrogen, ammonia, and methane emissions reduction."
"One of the most sensible, economically-viable way to achieve sustained energy market stability, inclusive economic growth and Sustainable Development Goals is to consider natural gas as a destination fuel," Sentyurin told the panel. "Natural gas remains one of the global enablers for reducing emissions quickly, cost-effectively and steadfastly by replacing carbon-intensive fuels as well as backing up intermittent renewables"
Addressing the panel, Mohamed Sanusi Barkindo, secretary-general, Opec, elaborated on Opec's latest World Oil Outlook (WOO), whose 15th edition was unveiled two weeks ago.
"The projections show that nearly all sources of energy will grow over the next quarter of a century…Oil and gas together will provide nearly 53% of the world's energy needs in 2045 – a little over 28% for oil and 24% for gas," he said in his remarks.
"As an African, I know very well that we need to harness all

the energy resources at our disposal, from the sun over our heads to the abundant fuels that lie beneath our feet, if we are to ease energy poverty and develop our continent’s economies.”

GLOBAL LNG-LNG prices continue to soar as buying ahead of winter starts



* Bangladesh pays nearly $30/mmBtu for prompt cargo – sources

* China and Turkey seek cargoes for winter

* Cameron LNG says Louisiana plant unit to return online this week

SINGAPORE, Sept 24 (Reuters) – Asian liquefied natural gas (LNG) prices surged by about 10% this week as demand continues to rise in the region despite higher prices and amid a supply crunch.

The average LNG price for November delivery into Northeast Asia LNG-AS was estimated at about $26.50 to $27 per metric million British thermal units (mmBtu), up at least $2 from the previous week, industry sources said.

“The post-COVID recovery in some places has been fast, which is pushing up demand, while there are some supply issues in several places, which is causing a crunch,” a Singapore-based trader said, adding that prices are expected to rise even higher during winter when demand for heating peaks.

Bangladesh, for instance, bought a cargo for delivery in late September from Vitol at $29.89 per mmBtu, the highest the country has paid for the super-chilled fuel, three industry sources said.

It did not award a separate tender seeking a cargo for October delivery as the offer was at around $35, two other sources said. Instead, it will issue two tenders next week to buy two cargoes for delivery in October, a third source said.

Demand from China was also firm with Unipec Singapore, the trading arm of Sinopec, seeking 11 cargoes for delivery in winter while Beijing Gas and Guangzhou gas also sought a cargo each for delivery in October and November, traders said.

Turkish state energy company Botas is also seeking 20 cargoes for delivery in winter, while Thailand’s Egat was seeking two cargoes for delivery in October, they added.

Some spot cargoes were offered in the market from Angola, Australia, Russia and Indonesia from October to January, but lower shipments from Egypt and Malaysia were supporting prices, traders said.

Cameron LNG in the U.S. said on Wednesday the liquefaction train shut for maintenance at its Louisiana export plant was expected to return later this week, which could add some supply. (Reporting by Jessica Jaganathan. Editing by David

Evans)

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Qatar’s low-carbon LNG expansion to meet world’s growing demand for cleaner energy: PwC

Qatar’s low-carbon LNG expansion will meet world’s growing demand for cleaner energy, PwC has said in its ‘Qatar Economy Watch’ report.

Qatar’s gas production process is among the lowest carbon-intensity globally and will further decline as a result of Qatar Petroleum (QP) sustainability strategy, announced in January that includes cutting methane leaks, using solar power for operations and boosting carbon capture and storage, PwC

noted.
As part of these efforts, Qatar was one of the five founding members in April 2021 of the Net Zero Producers' Forum, alongside the US and Saudi Arabia. This commitment to reducing the intensity of production will further add to Qatar's competitive edge against other LNG producers.
In a world-first in September 2020, QP signed a LNG contract with Singapore that includes wellhead-to-delivery reporting of greenhouse emissions. This was a first step towards a future in which carbon taxes or other mechanisms could advantage lower-intensity producers like Qatar.
PwC said, "The combination of an improving demand outlook for LNG with delays to new supply because of the weakened balance sheets of private hydrocarbon companies, makes it an ideal moment for Qatar to press ahead with expansion. In February 2021, QP awarded the main contract to build the four new LNG terminals for the North Field East expansion. The new supply will come onstream in stages during 2025-2027 and QP intends to soon commission another two trains.
"QP may be considering further expansion in the future, which makes sense given that North Field's reserves are sufficient for around three centuries of production at current levels, whereas the global economy is expected to have fully decarbonised by the end of this century."
The report said, "Financing the project, expected to cost around $43bn for all six trains, will benefit from the low interest rate environment, enabling QP to finance much of the capex through low-cost bonds as well as equity contributions from joint-venture partners. Equity bids were received from six oil majors in May 2021, and discussions are also underway for customers, including in China, to take smaller stakes."
The six new trains will boost Qatar's LNG output by nearly two-thirds and also lift its production of valuable by-products including condensates, natural gas liquids, ethane and helium. This will enable ongoing government expenditure to boost the economy as well as QIA's reserves. Work on the project will pick up rapidly over the next few years,

providing a significant boost to the post-Covid-19 recovery, particularly for the construction sector and for companies supplying goods and services to the project. Energy prices have recovered to pre-Covid-19 levels and may show continued strength for several years, PwC noted. This is because there has been a sharp drop in capital expenditure by oil and gas companies which may result in supply constraints, depending on how strongly demand recovers and how rapidly the Opec+ output cuts are tapered.

Speaking at the Qatar Economic Forum in June, the CEOs of ExxonMobil, Shell and Total Energies, along with Qatar's Minister of State for Energy Affairs, HE Saad bin Sherida al-Kaabi, warned that underinvestment could cause oil prices to spike towards $100. "Of particular relevance for Qatar is the fact that a raft of major LNG projects have been postponed or cancelled as a result of the lower capex budgets and worries about long term prices, reducing competition for the new capacity that will be generated from its own North Field expansion.

"At the same time, there has been a growing emphasis in global commitments to tackle climate change and address ESG (environmental, social and governance) concerns, such as China pledging to reach net-zero emissions in 2060. Sustainability advocates are finding traction in leveraging the willingness of governments to take decisive action against Covid-19 as a precedent for stronger action on climate change, including the Biden Administration's pledge to "Build Back Better". This shift in focus benefits Qatar because of the importance of gas as a lower-carbon transition fuel," PwC said.

NFE project to ‘reposition’ Qatar as world leader in LNG liquefaction capacity: IGU

The multi-billion dollar North Field East (NFE) project will “reposition Qatar as the world leader” in terms of liquefaction capacity, overtaking Australia, the International Gas Union (IGU) has said in a report.

Qatar Petroleum has taken the final investment decision for the NFE project, the world’s largest LNG project, which will raise Qatar’s LNG production capacity from 77mn tonnes per year (mtpy) to 110mtpy.

The project involves the construction of four new LNG mega-trains with a capacity of 8mtpy, the IGU said in its ‘World LNG Report 2021’.

This year’s global LNG trade increased to 356.1mn tonnes, a small increase of 1.4mn tonnes compared to 2019, but another year of consecutive growth in LNG trade despite Covid-19 related impacts on the supply and demand sides, noted Joe M Kang, president, IGU.

This was mostly supported by increased exports from the US and

Australia, together adding 13.4mn tonnes of exports.
Asia Pacific again imported the most volumes in 2020, together accounting for more than 70% of global LNG imports. Asia also accounted for the largest growth in imports in 2020 – adding 9.5mn tonnes of net LNG imports compared to 2019.
Global LNG market pricing experienced a turbulent year. Spot prices of cargoes trading in the Atlantic and Asia Pacific basins plummeted to record lows in the first six months, before reaching record highs at the start of 2021.
Pricing responded to Covid-19 impacts on demand, an initially well-supply market, and high storage levels in some markets, followed by a cold winter and shipping constraints.
While 20mn tonnes per year in liquefaction capacity was brought onstream in 2020, all in the US, start-up of several liquefaction trains in Russia, Indonesia, the US and Malaysia were delayed as a result of the pandemic.
The only project that was sanctioned in 2020 was the 3.25 mpta Energia Costa Azul facility in Mexico, and early 2021 Qatar took FID on four expansion trains totalling 32mn tonnes per year, the IGU said.
With additional new projects proposed, global pre-FID volumes stand at 892.4mn tonnes per year, most of which are in North America, the IGU noted. With some 35 new vessels added to the LNG shipping fleet in 2020, the total number of active vessels reached 572 at the end 2020, including 37 FSRUs and 4 FSUs.
Notably, with the exception of one, all new vessels are equipped with membrane containment systems, and 23 of them feature X-DF propulsion systems. Membrane containment systems capitalise on improved fuel efficiencies and lower emissions.
The number of LNG voyages, however, only increased by 1%, largely due to demand impact of Covid-19. Global regasification capacity increased by 19mn tonnes per year in 2020, bringing the total to 850.1mn tonnes per year as of February 2021.
Four new terminals and four expansion projects at existing terminals started importing cargoes – with the majority in the Asia Pacific region. There are now 39 markets that are

equipped with LNG receiving capabilities.
As of February 2021, there was 147.3mn tonnes per year of regasification capacity under construction, of which 72.3mn tonnes per year have communicated start-up dates in 2021, some of which is in new importing markets such as Ghana, El Salvador, Vietnam and Nicaragua.
Offshore regasification capacity increased by 5.6mn tonnes per year, bringing the global floating and offshore regasification capacity to 115.5mn tonnes per year as of February 2021, the IGU said.

New Trends on the Global Market of LNG Carriers

The Covid-19 pandemic has brought new challenges for the global gas industry, with the LNG shipping market not being an

exception. Because of the Covid-19 pandemic, the market witnessed a reduction in the global gas demand in 2020, which resulted in a slowdown of the global LNG trade and lower-than-expected demand for LNG carriers. These developments, coupled with the commissioning of a large number of new carriers, led to the oversupply of LNG carriers in the shipping market. However, a recovery of LNG demand in early 2021 has raised a question: where is the LNG shipping market drifting, and whether in the short- and medium-term there will be enough LNG carriers on the market to transport liquefied natural gas.

The last three years witnessed the record commissioning of LNG carriers, with 134 LNG carriers coming on line. As a result, at the beginning of 2021, there were over 600 LNG carriers operating in the global market (Figure 1).

In the short- and medium-term, the global LNG shipping market is anticipated to be balanced due to the upcoming commissioning of new LNG carriers. At least 142 LNG carriers, ordered recently, are expected to come on line between 2021 and 2025. Out of the total number, 46 LNG carriers are to be commissioned in 2021 followed by 38 carriers in 2022. South Korean shipbuilders account for the majority of LNG carriers on the order book. Hyundai, Samsung and Daewoo are going to build 110 carriers, while the Russian firm Zvezda has orders for 15 carriers and China’s Hudong for 11 carriers.

The ratio of global LNG exports to the number of LNG carriers gives an indication of the average volume of LNG transported by one LNG carrier throughout a specific year. A higher ratio indicates a tighter LNG shipping market. Over the last decade, the LNG shipping market has loosened, supported by the increasing availability of LNG carriers. From 2011 to 2020, the ratio fell from 0.73 to 0.59, which implies that in 2020 one LNG carrier transported on average 0.59 million tonnes per annum (mtpa) (Figure 2).

The global LNG carrier fleet is renewed on a regular basis,

with old carriers being scrapped and new ones continuously being added. The construction of LNG carriers has always been associated with the commissioning of new LNG liquefaction capacity. The building of LNG carriers in the mid-2000s was largely driven by the completion of LNG plants in Qatar, while in the late 2010s it was driven by the completion of LNG plants in Australia, U.S., and Russia. As a result, various groups of LNG carriers operate on the market depending on commissioning date. Currently, at least four (4) carriers in operation today were commissioned in the 1970s, 10 carriers in the 1980s, 54 carriers in the 1990s, 244 carriers in the 2000s, and 294 carriers commissioned in the 2010s.

The combined capacity of LNG carriers has also increased consistently. Over the last decade, capacity more than doubled – to 43 mtpa in 2020 – driven by the commissioning of a large number of LNG carriers and higher capacity of new LNG carriers (Figure 3).

There are different types of LNG carriers depending on their capacity. Various factors have an impact on the choice of shipping companies to build and charter LNG carriers with specific capacity. The liquefaction and regasification capacity of LNG plants and terminals, depth of berths, movement through Suez and Panama canals or through Northern Sea Route, all play an important role in the vessel design. The larger the capacity of the involved LNG carriers, the less LNG shipments and carriers are needed for specific trade routes.

In this context, the largest group of LNG carriers is the one with capacity ranging from 166,000 million cubic metres (cbm) to 182,000 cbm, which comprises 219 carriers. Besides, 191 LNG carriers have capacity from 125,000 to 150,000 cbm, while 125 LNG carriers have capacity of 150,000 cbm up to 165,000 cbm. It is worth highlighting that Qatar’s gas transportation company Nakilat owns all 45 Q-Flex and Q-Max LNG carriers operating in the world – with capacity of 210,000-217,000 cbm

and 263,000-266,000 cbm, respectively – individually or jointly with international shipping companies. The average capacity of LNG carriers reached 71.2 kilotons (158,200 cbm) in 2020 compared to 54.4 kilotons (120,900 cbm) in 2000. Thus, the rising capacity of new LNG carriers leads to lower demand for new LNG carriers.

Various types of LNG carriers exist depending on the propulsion systems. Steam turbine LNG carriers, which dominated the LNG shipping market for many decades, remain the most popular ones, with 239 carriers operating on the global market. However, their dominance has been broken over the last decade, driven by the emergence of alternative, more efficient propulsion systems. Suffice to note that only 15 LNG carriers of this type were commissioned in the 2010s. Because of these new trends, today many of steam turbine LNG carriers, especially the old ones, are being converted into FSU or FSRU (floating storage/ regasification unit). Since the mid-2000s, the global shipping industry developed alternative types of LNG carriers, driven by its aspiration to increase operational efficiency, decrease the consumption of bunker fuels, optimise the size of engine room, and expand cargo capacity. The first of them was a dual-fuel diesel electric (DFDE) propulsion system, which came on line in 2004. Later, the industry introduced other propulsion systems for LNG carriers, including tri-fuel diesel electric (TFDE), M-type, electronically controlled, gas injection (MEGI), diesel with re-liquefaction (DRL), in addition to some other types (Figure 4).

The anticipated increase in global liquefaction capacity, LNG trade and number of LNG shipments are key factors that will influence the LNG shipping market and incentivise market players to build new LNG carriers in the short- and medium-term. In this context, the GECF Member Countries will remain key players in the market. These countries have various policies towards the transportation of LNG. First, some of them do not own or operate LNG carriers. Second, others do not

own but operate the fleet. Third, others own but do not operate LNG carriers. Finally, some of them both own and operate the fleet.
The planned expansion of LNG liquefaction capacity in some GECF Member Countries, mainly in Qatar and Russia, will have a huge impact on the LNG shipping market in the medium-term.

Today, the leader of the global LNG transport market is undoubtedly Qatar's Nakilat. It owns 69 LNG carriers, individually or jointly with other international shipping companies, with a combined capacity exceeding four mt. Other companies, such as Maran Gas from Greece, GasLog from Monaco, and MISC from Malaysia, lag far behind the Qatari company. Qatar plans to expand its LNG liquefaction capacity by 49 mtpa to 126 mtpa by 2027. Such huge additions to the country's LNG liquefaction capacity will require new LNG carrier fleet to transport LNG to the global markets. In this context, in 2020, Qatar entered into agreements with global shipbuilders, mainly from South Korea, for over 100 new LNG carriers. These contracts will be worth nearly US$20 billion, which means that it will be the largest LNG-shipbuilding programme in the industry's history. As a result, Qatar secured around 60% of the global LNG ship construction capacity through 2027. That could lead to the tightening of the LNG shipbuilding market, which should be taken into account by other shipping companies planning to order new LNG carriers.

Russia also has plans to expand its LNG liquefaction capacity, which will require additional LNG carrier fleet. The Russian shipping company Sovcomflot has already ordered 15 icebreaking LNG carriers for the Arctic LNG 2 project from the Russian Zvezda Shipbuilding Complex, with the South Korean Samsung Heavy Industries being a technology partner of Zvezda in this project. These LNG carriers will be delivered between 2023 and 2025. Sovcomflot will own one vessel individually and 14 other carriers jointly with its partner Novatek. These carriers will enable the delivery of LNG to buyers in Asia in 15 days through the Northern Sea Route, which reduces transportation

costs and transit time by half, compared to the traditional Suez Canal route. This instance will be the first time a Russian shipbuilding company will construct LNG carriers.

Dr Aydar Shakirov
Gas Transportation and Storage Analyst
Gas Market Analysis Department

New QFC member set to become global portfolio manager of spot LNG

A Qatar Financial Centre (QFC) newcomer will establish its position as a global portfolio manager of spot LNG, or liquefied natural gas trades that will have immediate local knock-on effects, after Doha expands its LNG production from the present 110mn tonnes per annum.

This outcome is one among the “unsung” economic benefits that will follow North Field Expansion (NFE), which is also set to

enhance the prospects of asset management industry in the country, the QFC said in an article.

The NFE project will not only bring up natural gas from underground, but also other valuable hydrocarbons for export and domestic use, it said, pointing out that associated hydrocarbons destined for export include 260,000 barrels per day of condensate and 11,000t/d of liquefied petroleum gas, valued at roughly $3.05bn annually (using posted 2020 average prices).

“The additional income earned through hydrocarbon exports will increasingly make Qatar a destination for asset managers and other financial institutions,” the QFC said. As imports of construction inputs and machinery wane with most infrastructure projects coming close to completion, Qatar’s trade surplus is likely to register bigger in the years ahead.

“Once NFE-related exports commence in late 2025, export earnings are destined to reach still higher. Whereas much of the immediate proceeds are destined to the Ministry of Finance and Qatar Investment Authority, there is a progressively stronger case for specialised asset managers to locate in Doha close to their future investors,” QFC said.

In tandem, it said, financial institutions in the country will increasingly be called upon to provide a variety of sophisticated products to Qatari firms with a growing international footprint.

As Qatar’s economy continues to grow at home in terms of complexity, and abroad with its varied connections, the financial sector is set to grow substantially.

As Qatar looks ahead, it is destined to leverage its natural gas-focused competitive cost advantages, global network, existing industrial base, innovative focus and high-profile investments to become an attractive and rewarding business destination.

The QFC plays a key part of the country’s development journey, which it looks forward to supporting with vigour and indirectly offering firms on its platform noteworthy prospects.

The first certain phase concerns the North Field East that comprises an approximate $28.75bn of investments – half of which has received a final investment decision as of February 2021.

Beyond that, Qatar Petroleum, or QP, is appraising different areas of the North Field to possibly award a subsequent expansion phase within the next three years.

The QP has made this NFE investment at an opportune time, which will allow it to capture more global LNG market share and gain footholds in new markets as many competitors pull back from major projects, according to the QFC article.

Another “unsung” benefit is the North field’s expansion would drive local manufacturing opportunities. Additionally, there will be 4,000t/y of ethane for use as feedstock in Qatar’s growing petrochemicals sector. This hike equates to nearly 50% of existing 2020 export capacity, or 36.4% of current domestic base quantities.

A combination of these NFE ethane volumes and those from Barzan enables Qatar to produce in future a greater variety as well as more complex petrochemicals, such as those that will originate from the joint venture with Chevron Phillips (70% owned by QP) using the Middle East’s largest 1.9mn t/y ethane cracker in Ras Laffan to start production in 2025.

This is critical to the local economy, according to Gulf Petrochemicals and Chemicals Association, which recently outlined that with oil at $65 a barrel, crude producers can earn $15 per barrel by refining their output and an extra $30 a barrel on top of that by converting it into petrochemicals.

“As Qatar continues its drive to diversify economically, local manufacturing will play a key role,” the QFC article said.