

# GERAB

# BULLETIN

## Weekly News



### COMMODITY UPDATES

- Oil prices rose on Thursday, extending gains into a fourth session on positive comments from vaccine makers about their efficacy against the Omicron variant, even as some governments stepped up curbs to stop its rapid spread. U.S. West Texas Intermediate (WTI) crude futures rose 0.7%, to \$72.84 a barrel at 0751 GMT, adding to a 0.4% gain in the previous session. Brent crude futures rose 0.5%, to \$76.22 a barrel, adding to a similar gain on Wednesday.

Source-Reuters

- Over the past few years, steel pipes & tubes have gained immense popularity in the oil and gas industry for transporting fluids and in the form of conveyor belt rollers, bearing casings, and casings for concrete pilings. Also, with a boom in shale gas drilling, steel tubing is being used for carrying chromium, which has led to a rise in their production. Apart from this, they are also used in heating, ventilation, and air conditioning (HVAC) and refrigeration equipment's in the mechanical structure of heat exchangers, compressors and boiler pipelines. Moreover, there has been a rise in the demand for steel tubes in the automobile sector as they are reliable and possess optimal strength and corrosion resistance properties.

The major drivers for this market are increasing construction of new pipelines, replacement of aging pipelines, urbanization rate, and infrastructure development. Emerging trends which have a direct impact on the dynamics of the steel pipe industry include the increasing use of premium and technically advanced pipe by using dopeless technology and increasing use of multilayer pipes for strength and durability. Looking forward, it is expected that market to grow at a CAGR of around 5-6% during 2021-2026.

Source-imarigroup.com

Commodity	UOM	Latest Price	WTD %	MTD %	3MTD %	6MTD %	YTD %
Chromium	USD/MT	11,597.73	-0.51	0.98	29.36	37.72	67.55
Coal	USD/MT	171.68	-11.66	0.27	-15.46	26.55	93.93
Cobalt	USD/MT	69,401.52	7.66	9.41	31.12	57.28	117.62
Copper	USD/MT	9,516.00	-2.03	-0.84	1.84	-0.65	22.70
Crude Oil	USD/BBL	72.00	-10.50	-9.50	-1.43	-0.63	19.18
Crude Oil Brent	USD/BBL	72.00	-10.50	-9.50	-2.12	-1.99	43.22
Crude Oil WTI	USD/BBL	68.84	-3.24	0.94	-3.64	10.09	83.00

Iron Ore	USD/MT	103.74	11.08	9.87	-18.84	-50.84	-33.05
Molybdenum	USD/MT	41,145.30	-1.11	-2.00	-5.52	9.17	103.09
Natural Gas	USD/MCF	3.87	-26.31	-27.81	-25.82	13.76	45.95
Nickel	USD/MT	19,885.00	-2.67	0.16	2.98	10.50	24.72
Steel HRC (FOB	USD/MT	500.00	0.00	0.00	0.00	0.00	0.00

## INTERNATIONAL RIG COUNT

### ACTIVE RIG COUNTS BY REGION

Region	Latest Count	WTD %	MTD %	3MTD %	6MTD %	YTD %
United Arab Emirates	43	*	2.38	16.22	0.00	4.88
GCC	183	*	-0.54	4.57	-2.14	3.39
Middle East	276	*	0.36	5.75	3.76	15.97
Africa	78	*	6.85	14.71	32.20	41.82
Asia-Pacific	181	*	4.02	-1.09	6.47	18.30
Europe	98	*	4.26	3.16	10.11	12.64
Latin America	154	*	1.99	12.41	14.07	52.48
North America	749	1.22	1.22	9.99	25.67	83.13
<b>Total</b>	<b>1,536</b>	*	<b>1.92</b>	<b>7.79</b>	<b>16.81</b>	<b>47.27</b>

Source- Baker Hughes

(\*) No weekly data available for those particular regions

### CURRENCY EXCHANGE RATE

Code	Description	Country	Units	Latest Exchange Rates	WTD%	MTD%	3MTD%	6MTD%	YTD%
EURUSD	1 EUR to USD	Euro Area	USD	1.1288	-0.29	-2.58	-4.49	-7.27	-6.74
USDCNY	1 USD to CNY	China	CNY	6.3572	0.22	0.50	1.55	0.66	2.47

### CRUDE OIL STOCK

Region	Units	Latest Value	WTD %	MTD %	3MTD %	6MTD %	YTD %
US Stocks of Crude Oil & Petroleum Products	Thousand Barrels	18,24,711.00	0.13	-1.18	-2.17	-4.25	-8.40

## UPDATES AROUND THE GLOBE

### GULF COOPERATION COUNCIL (GCC)

UAE

- UAE expands Mugharraq Port to benefit from oil and gas projects**  
 The UAE's AD Ports is expanding the Mugharraq Port as it prepares to receive international vessels and benefit from its proximity to oil and gas developments in OPEC's third biggest producer.
- Borouge awards EPC contracts for \$6.2bn expansion**  
 Borouge, a leading petrochemical company providing value-creating polyolefin solutions, has

awarded EPC contracts for the \$6.2 billion world-scale fourth expansion of its manufacturing complex in Ruwais, Abu Dhabi (Borouge 4). The details of the contracts awards are as follows: The first package for early works was awarded to Al Asab General Transport and Contracting, a leading Abu Dhabi-based construction company. The early works package covers engineering, procurement and construction related to site preparation and early works of the world-scale expansion.

The second package of Borouge 4 was awarded to French construction giant, Technip Energies, in consortium with Target Engineering, to build the ethane cracker. This is Borouge's fourth cracker with a manufacturing capacity of 1.5 million tonnes of ethylene output per annum. The last three packages of Borouge 4 were awarded to Italian industrial engineering company, Tecnimont. The package is for polyethylene and 1-hexene units covering the build of Borouge 4's two new polyethylene manufacturing plants and 1-hexene unit, a component in the production of high-performance polyethylene.

- **ADNOC Onshore - OGD II Trunkline Modification**

ADNOC Onshore is planning to modify the OGD II trunkline in UAE. The US\$100 million project includes the Replacement of trunk lines, Laying of station piping, Replacement of flow lines and Installation of equipment.

- **ADOC - Mubarraz Oil Field Expansion**

Abu Dhabi Oil Co is planning to undertake the expansion of the Mubarraz oil field project in Abu Dhabi. The project is being developed in three packages. The US\$600 million project includes the Installation of new oil heaters, Installation of new WWT and Modification of piping bottleneck at Mubarraz island.

- **ADNOC - Project Wave**

Abu Dhabi National Oil Company (Adnoc) is undertaking the construction of two planned seawater treatment and transmission pipeline schemes known as "Project Wave" in Abu Dhabi, the UAE. The third component entails the development of a centralized pumping station and in-field distribution network to disseminate treated water to water injection wells. The US\$5000 million project includes the Construction of two seawater Nano filtration plants (954679m<sup>3</sup>/d), Construction of pumping stations, Laying of transmission pipelines (approximately 450km), Development of a centralized pumping station, Development of in-field distribution network to disseminate treated water to water injection wells and Construction of seawater intake and outfall.

- **Adnoc - Al-Nouf Seawater Treatment Plant**

Abu Dhabi National Oil Company (Adnoc) is planning to develop Al- Nouf planned seawater treatment under Project Wave in Abu Dhabi, the UAE. The US\$2000 million project involves the construction of a seawater treatment plant, Construction of a centralized pumping stations, Laying of transmission pipelines, Development of in-field distribution network to disseminate treated water to water injection wells and Construction of seawater intake and outfall.

- **TechnipFMC Awarded Multi-Year Surface Technologies Contract in UAE**

TechnipFMC announced in a statement, through Gulf Automation Services and Oilfield Supplies LLC, it has been awarded a major 10-year framework agreement for wellheads, trees and associated services by the Abu Dhabi National Oil Company (ADNOC). Under the framework

agreement, TechnipFMC will further grow in-country talent and expand existing manufacturing, assembly and test capabilities in Abu Dhabi in order to deliver the Company's complete portfolio of surface wellheads and trees locally.

- **Reliance-TA'ZIZ Launch Strategic JV for \$2bn Chemicals Projects in UAE**

Abu Dhabi Chemicals Derivatives Company RSC Ltd ("TA'ZIZ") and Reliance Industries Limited (RIL), have agreed to launch TA'ZIZ EDC & PVC, a world-scale chemical production partnership at the TA'ZIZ Industrial Chemicals Zone in Ruwais. The new joint-venture will construct and operate a Chlor-Alkali, Ethylene Dichloride (EDC) and Polyvinyl Chloride (PVC) production facility, with an investment of more than \$2 billion. Representing the first production of these chemicals in the UAE, the project will enable the substitution of imports and the creation of new local value chains, while also meeting growing demand for these chemicals globally. The TA'ZIZ Industrial Chemicals Zone is a joint venture between Abu Dhabi National Oil Company (ADNOC) and ADQ. The project builds on ADNOC and Reliance's long-standing strategic partnership and is Reliance's first investment in the MENA region.

- **ENGIE and Masdar form US\$5bn strategic alliance for UAE's green hydrogen**

ENGIE and Masdar, one of the world's fastest-growing renewable energy companies, announced in a statement that they have signed a strategic alliance agreement to explore the co-development of a UAE-based green hydrogen hub. The two companies are looking to develop projects with a capacity of at least 2 GW by 2030, with a total investment in the region of US\$5 billion. The agreement was signed by Dr Sultan Ahmed Al Jaber, UAE Minister of Industry and Advanced Technology, ADNOC Managing Director and Group CEO, and Masdar Chairman, and Catherine MacGregor, ENGIE CEO, in the presence of Mohammed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi, and Emmanuel Macron, President of the French Republic, during his visit to the UAE. This partnership aims to capture synergies and complementarities between Masdar, as an investor and developer of renewable energy projects, and ENGIE's leadership position in green hydrogen deployment to establish an early mover position in the UAE's hydrogen market. By leveraging existing infrastructure, the companies will initially target local supply, with the aim of expanding capacity to create a giga-scale green hydrogen hub for the GCC, with the potential to export to other markets.

- **UAE and France sign multiple deals and MOUs including energy**

UAE announced in a statement that it has signed multiple agreements and MoUs with France in many areas, helping to boost the strategic partnership between the two countries to serve their mutual interests. His Highness Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces, and Emmanuel Macron, President of France, attended the signing of agreements and Memorandums of Understanding (MoUs).

BAHRAIN

- **Mitsubishi consortium named EPC contractor for Alba PS5 unit**

Aluminium Bahrain (Alba), the world's largest aluminium smelter ex-China, has selected a consortium of Japan's Mitsubishi and Sepco III as the engineering, procurement and construction contractor for the fourth additional block at Power Station 5 (PS5). Aluminium Bahrain (Alba), the world's largest aluminium smelter ex-China, has selected a consortium of Japan's Mitsubishi and Sepco III as the engineering, procurement and construction (EPC) contractor for the fourth additional block in its Power Station 5.

<p>KUWAIT</p>	<ul style="list-style-type: none"> <li> <p><b><u>MEW - Doha SWRO Desalination Plant Phase 2</u></b>  The Ministry of Electricity and Water (MEW) is planning to construct a seawater reverse osmosis (SWRO) desalination plant in Doha, Kuwait. Water sustainability is a growing concern in the Middle East, the Ministry of Electricity &amp; Water has taken proper measures to sustain a potable water supply for the communities. The project aims to meet the growing demand for water both from the domestic and industrial sectors in the country. The current profile captures Phase 2 of the project. The US\$432 million project includes the Construction of SWRO desalination plant with a capacity of 60MIGD, Rehabilitation of multi-stage flash distillation units ,Rehabilitation of auxiliary power units, Installation of safety systems, Installation of booster pumps, Installation of pre &amp; post-treatment units, Installation of RO unit.</p> </li> </ul>
<p>OMAN</p>	<ul style="list-style-type: none"> <li> <p><b><u>Oman launches its second largest oil, gas project</u></b>  The Petroleum Development Oman on Monday launched Yibal Khuff oil and gas project worth SR9.7 million (\$2.6 million). The launching ceremony of PDO’s second largest project was held under the auspices of Deputy Prime Minister for Defense Affairs Sayyid Shihab bin Tarik Al-Said. Spanning an area of 1.68 square kilometers, the project at its peak will have a capacity to produce 20,000 barrels of crude and 5 million cubic meters of gas a day, said PDO top official Abdul-Amir bin Abdul-Huddein Al-Ajmi.</p> </li> <li> <p><b><u>A \$30bn investment in the future</u></b>  The signing of new investment deals reportedly worth \$30 billion between Saudi Arabia and Oman is no doubt a positive development for solidifying cooperation between the member countries of the Gulf Cooperation Council. Yet the first questions that spring to mind are: Why Oman and why now? From a geopolitical perspective, Saudi Arabia’s move is important as the Kingdom is now using its immense economic clout to support its smaller neighbors, starting with Iraq to the north and now Oman to the southeast.</p> </li> </ul>
<p>QATAR</p>	<ul style="list-style-type: none"> <li> <p><b><u>Three contracting giants battle it out for prized Qatargas North Field expansion contract</u></b>  The onshore contract comprises sulphur-handling facilities destined for the first expansion phase of the North Field. A trio of leading international engineering, procurement and construction players is battling it out for a sizeable onshore contract from Qatargas for work on the first expansion phase of its giant North Field. Multiple people with direct knowledge of the development told Upstream that at least three EPC contractors recently submitted technical bids for the fourth package (Package 4) of the giant liquified natural gas expansion scheme.</p> </li> <li> <p><b><u>Qatargas - Sulphur Storage and Export Facilities (EPC-4)</u></b>  Qatargas is planning the construction of Sulphur Storage and Export facilities at Ras Laffan Industrial City (RLIC), Qatar. The US\$1,000 million project includes the Construction of a sulphur storage tank with a capacity of 10,000 tonnes, Laying of connecting pipelines and Installation of a control system and valve.</p> </li> <li> <p><b><u>ASHGHAL - Al Wakrah And Al Wukair STP</u></b>  Qatar Public Works Authority (ASHGHAL) is planning the development of the sewage treatment</p> </li> </ul>

	<p>plant for the Al Wakra and Al Wukair areas in Qatar. The project will have the capacity to treat average flows of 150,000 cubic meters per day and will be developed on a public-private partnership (PPP) basis. It is a part of Ashghal’s Master Plan for the region to accommodate the anticipated population growth in the area and the diversion plans from other sewage treatment work. The US\$700 million project includes the Construction of a terminal pumping station, Construction of an odour control facility (OCF) for the TPS and main trunk sewer (MTS-03), Construction of two deep-shaft structures including a screen shaft and pump shaft, Construction of sewage treatment works with an average capacity of 150,000 m<sup>3</sup>/day, Construction of primary, secondary, and tertiary treatment units</p> <ul style="list-style-type: none"> <li>• <b><u>Qatargas - Pipelines and Topsides Facilities</u></b> Qatargas is undertaking the construction of offshore pipelines and topside facilities as part of the North Field Expansion (NFE) project in Qatar. The US\$800 million project includes the construction of eight unmanned wellhead platforms (WH-14,15,16,17,18,19,20&amp;21), 2. Laying of four 38-inch trunklines , Laying of four 28-inch intra-field lines and Laying of associated facilities.</li> </ul>
SAUDI ARABIA	<ul style="list-style-type: none"> <li>• <b><u>Aramco signs deals with French players to boost hydrogen and CCUS in Saudi Arabia</u></b> Saudi Aramco has signed five key agreements with leading French companies as Saudi Arabia aims to boost its hydrogen transport business and explore opportunities in carbon capture technology and artificial intelligence. The Saudi state-controlled company said on Saturday it has signed multiple memoranda of understanding with French players, including a key deal to explore a hydrogen-powered vehicle business with Gaussin — a pioneer in clean and intelligent transport solutions. Aramco also signed four MoUs with French players Air Liquide, Alteia and Axens that aim to develop opportunities in carbon capture technology, artificial intelligence and local manufacturing.</li> <li>• <b><u>Samsung lands \$1.2bn Aramco gas project contract</u></b> Samsung Engineering has announced that it has won a \$1.23-billion contract from Saudi oil giant Aramco for its Jafurah Gas Process Package 1 Project. The scope of work includes building a gas treatment facility along with acid gas and NGL removal units. It is part of the Jafurah shale gas field development located 400 km east of capital Riyadh and is expected to be completed in 2025. One of the world’s leading engineering, procurement, construction and project management (EPC&amp;PM) companies, Samsung Engineering will build a gas treatment facility that will remove sulphur and other substances from 1.1 billion cubic feet of gas per day.</li> <li>• <b><u>Saipem signs \$750m contract with Saudi Aramco for Jafurah gas field</u></b> Saipem will also build a system to transport water associated with the separation of the treated gas. Italian Bourse-listed oilfield services giant Saipem signed a \$750m contract with Saudi Aramco on the Jafurah Development Program in Saudi Arabia. The project involves the construction of a hydrocarbon collection system and the transport of gas and condensate to the new Jafurah plant, in the Eastern Province of Saudi Arabia. Saipem will also build a system to transport water associated with the separation of the treated gas. The EPC (Engineering, Procurement, and Construction) contract includes the engineering, supply of materials, construction, and commissioning of approximately 835km of pipelines for the transportation of gas, condensate and production water.</li> </ul>

- **Aramco signs \$15.5bn gas pipeline deal with global consortium led by BlackRock**  
 Saudi Aramco signed a \$15.5 billion lease and leaseback deal involving its gas pipeline network with a consortium led by BlackRock Real Assets and Hassana Investment Co., said a statement. Considered to be one of the largest energy infrastructure deals, it represents Aramco's asset optimization program and is the second such infrastructure transaction by Aramco this year after the closing of the oil pipeline infrastructure deal earlier in June 2021.
- **ACWA Power/NEOM/Air Products - Helios Green Fuels Project**  
 A consortium of ACWA Power, NEOM and Air Products are planning to undertake the development of Helios Green Fuels Project in NEOM, Saudi Arabia. The electrolysis unit will produce 650 tonnes a day of hydrogen to feed to the ammonia plant. It is ammonia that will be transported globally. The project is being developed in three units: Contract value US\$5,000 million project and it includes 4000 MW Renewable Energy System, Ammonia Plant Project and Air Separation Unit.
- **McDermott awarded a trio of offshore contracts from Saudi Aramco**  
 US-based engineering giant McDermott International has won three prized offshore contracts from Saudi Aramco as a part of Saudi Arabia's coveted long term agreement (LTA) with leading global offshore contractors. McDermott said in a statement on Tuesday that it has been awarded three new awards from Aramco for engineering, procurement, construction and installation (EPCI) projects. "In total, McDermott will provide EPCI of four drilling jackets and seven oil production deck modules (PDMs) in Saudi Arabia's Zuluf, Ribyan, Abu Sa'fah and Safaniya fields located offshore in the Arabian Gulf," the US-based contractor said. In addition to the seven PDMs and four drilling jackets, the project's scope of work for the three— contract release purchase orders (CRPOs) includes the EPCI of more than 45 kilometres of offshore pipelines and 100 kilometres plus of subsea cables and tie-in works to existing facilities, it added. "Fabrication is expected to begin in the first quarter of 2022, with offshore installation commencing the fourth quarter of 2022 and overall completion expected the second quarter of 2023," McDermott noted.
- **Wood awarded FEED Contract in Saudi Arabia**  
 Wood announced in a statement that it has secured a multi-million dollar contract with Saudi Aramco to deliver engineering and project management services for the Safaniyah and Manifa oilfields in the Kingdom of Saudi Arabia. The two-year contract includes the delivery of conceptual studies, front-end engineering design (FEED) and project management services for Saudi Aramco's oil and gas, pipelines and infrastructure facilities and will maximise production capacity. The new FEED contract will be executed by Wood in its Al-Khobar Saudi Arabia and Reading UK offices, as well as Wood's engineering services hub, statement mentioned.
- **Saudi Aramco extends Worley's contracts for offshore assets**  
 Worley announced in a statement that, Saudi Arabian Oil Company (Saudi Aramco) has awarded in-Kingdom and out-of-Kingdom contracts to extend Worley's services for Saudi Aramco's offshore Maintain Potential Program. Under the contracts, Worley will continue to provide project management, engineering, design, fabrication and installation supervision for Saudi Aramco's portfolio of offshore projects. The term of the extension is three years and the services will be executed by Worley's Al-Khobar and Houston offices. Worley has held these contracts for the past 19 years. The extension of these contracts further grows and develops our

business in Saudi Arabia and contributes to the Saudi community.

**ASIA EXCLUDING GULF COOPERATION COUNCIL (GCC)**



INDIA	<ul style="list-style-type: none"> <li>• <b><u>BOA Deep C booked for subsea project offshore India</u></b> Norway-based offshore contractor BOA OCV has won a contract in Asia for its subsea construction vessel BOA <i>Deep C</i>. The company did not disclose details about the customer but did say that the contract covers a subsea project offshore India. The contract, scheduled to commence in 4Q 2021, will keep the vessel utilised towards the middle of 2022.</li> </ul>
INDONESIA	<ul style="list-style-type: none"> <li>• <b><u>Indonesian LNG project receives a 20-year boost</u></b> The extension will take effect from when the current contract expires in December 2027, said co-venturer Medco Energi. Senoro-Toili is a large feedstock provider to the Donggi Senoro LNG plant, and also supplies gas to an ammonia plant and to Perusahaan Listrik Negara. Medco said the development of the Senoro Toili working area will continue with the development of the South Senoro field, expected to be completed in 2025, as well as new exploration activities. Daily maximum production from Senoro Toili reached 337 million cubic feet per day of gas in 2020, with 270 MMcfd being supplied to the LNG facility.</li> <li>• <b><u>Pertamina - Cilacap Refinery Upgrade (RDMP RU IV)</u></b> The state-owned energy company Pertamina will revamp the Cilacap Refinery as part of Indonesia's Refinery Development Masterplan Program (RDMP). The upgrade is supposed to raise the production capacity of the Cilacap refinery from 350,000 barrels of oil per day (bpd) to 400,000 bpd. Moreover, the refinery upgrade will also increase the capacity to produce derivative products and fuel output from the refinery will meet the Euro 4 and Euro 5 standards.</li> </ul>
JORDAN	<ul style="list-style-type: none"> <li>• <b><u>MWI - Aqaba-Amman Water Desalination and Conveyance (AAWDCP)</u></b> As of June 2021, the first phase will involve the construction of 280,000 cubic metres a day (cm/d) of capacity for desalination and 80,000 cm/d of ground water. The second phase will consist of raising the plant's overall production to 600,000 cm/d. The US\$200 million project includes the Phase 1 Construction of a seawater desalination plant of capacity 150 mcm/yr, Construction of regulating tanks, Construction of seawater intake pump station.</li> </ul>
MALAYSIA	<ul style="list-style-type: none"> <li>• <b><u>Petronas invites duo to bid for FEED competition on 'massive' Kasawari CCS scheme</u></b> Petronas has issued invitations to bid for the front-end engineering and design work for phase two of its Kasawari field offshore development in its native Malaysia.</li> <li>• <b><u>JGC confirms Petronas FLNG deal</u></b> Japan's JGC has confirmed that together with Samsung Heavy Industries (SHI) that it has been awarded the front end engineering design (FEED) contract for a nearshore floating liquefied natural gas (FLNG) facility in Malaysia developed by Petronas.</li> <li>• <b><u>Petronas - PFLNG Tiga (PFLNG 3 / ZLNG Project)</u></b> Petronas is planning to build its third Floating Liquefied Natural Gas (FLNG) vessel with an estimated cost of \$3 billion. The project, dubbed ZLNG Project, will be located offshore Sabah in east Kalimantan island. The vessel will have a capacity of 2 million tons per annum and will include an onshore substation, a new jetty head, and a trestle at the jetty of Petronas Chemicals'</li> </ul>

	fertilizer facility at the Sipitang Oil and Gas Industrial Park (SOGIP), offshore and onshore pipelines. The project will further strengthen the local ecosystem of talent and companies with niche skills to carry out operations and support services
VIETNAM	<ul style="list-style-type: none"> <li>• <b><u>NOVATEK, PetroVietnam Power ink agreement on LNG and power</u></b> PAO NOVATEK and PetroVietnam Power recently signed a cooperation agreement on LNG and power projects in Vietnam. President Nguyen Xuan Phuc and NOVATEK’s Chairman of the Management Board Leonid Mikhelson held a meeting to discuss the supply of LNG from the company’s projects to the Vietnamese market. Parties to the agreement intend to cooperate on LNG infrastructure projects with the view to meeting the growing demand for electricity in Vietnam. The agreement represents an important step in the development of the NOVATEK’s cooperation with Vietnamese corporations, which received an additional impetus after NOVATEK opened its representative office in Vietnam.</li> </ul>

**AUSTRALIA**

AUSTRALIA	<ul style="list-style-type: none"> <li>• <b><u>Sherdar Australia Bio Refinery to develop Australia’s first renewable diesel processing and storage facility</u></b> Sherdar Australia Bio Refinery Pty Ltd, an Australian-based company, today announced plans to develop a renewable diesel processing and storage facility in the country. When in full operation, the facility aims to produce 500,000 tpy of renewable fuels with lower carbon emissions than conventional fossil fuels. This will position Australia as one of the major renewable fuel producers and exporters in the world, which is in support of Australia government policy to forge a sustainable future. While the exact location has yet to be announced, the facility will cover more than 20 hectares in land size and will be located close to adequate port infrastructure, as the primary countries for exporting renewable diesel will be the United States and Europe to meet the rising demand of renewable fuels in both regions. Sherdar is currently in the final stages of engineering governmental discussions and receiving relevant approvals for the project.</li> <li>• <b><u>Baker Hughes wins Pluto LNG deal</u></b> Baker Hughes (NASDAQ:BKR) has been awarded a contract by Bechtel to provide high-efficiency gas turbines and centrifugal compressors to support the expansion of the Pluto liquefied natural gas (LNG) onshore processing facility in Western Australia, which is operated by Woodside.</li> </ul>
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**AFRICA**

ALGERIA	<ul style="list-style-type: none"> <li>• <b><u>Sonatrach - Process Gas Compressor At Hassi Messaoud</u></b> Sonatrach is planning to undertake the development of a process gas compressor, an extension of utilities (compressed air and nitrogen) at Bir Berkine CPF in Hassi Messaoud, Algeria. The US\$120 million project includes the ,Construction of process gas compressor, Construction of an air-cooled gas cooler, Construction of high-pressure gas discharge units, Laying of trunk lines.</li> <li>• <b><u>Sonatrach/E&amp;P/Touat BV - Touat Gas Surface Installations</u></b> A consortium of Sonatrach (SH), GDF Suez E&amp;P, and Touat are undertaking the surface installation</li> </ul>
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	<p>of Phase II as part of Touat Gas Field Development in Wilaya of Adrar, Algeria. The US\$120 million project includes the Installation of ancillary facilities, Installation of instrumentation, Installation of compression units, Construction of associated facilities.</p>
<p>ANGOLA</p>	<ul style="list-style-type: none"> <li>• <b><u>TotalEnergies - CLOV Development - Phase 2 - Subsea Tiebacks</u></b> Total first moved into Block 17 in 1997. Located off the coast of Angola, nearly 1,300 meters below sea level, Block 17 is made up of four major hubs - Girassol, Dalia, Pazflor and CLOV (Cravo, Lirio, Orquidea and Violeta) - which were gradually brought on stream between 2001 and 2014. CLOV is the fourth major development hub of Total-operated Block 17, after Girassol, Dalia and Pazflor. The CLOV phase 2 project is designed to have a production plateau of 40,000 barrels of oil per day (bopd).</li> <li>• <b><u>Chevron's Angola subsidiary signs 20-year extension for Block 0</u></b> Chevron's subsidiary in Angola, Cabinda Gulf Oil Company Limited (CABGOC) has just renewed the concession of Block 0, located on Cabinda province's offshore. The agreement, signed in Houston, United States of America, extends the concession for 20 years, until 2050. Within the scope of this extension, CABGOC continues to be the operator of the Block, with a 39.2% stake. The contractor group includes Sonangol, E.P., with a 41% stake; Total, with 10%; and Eni Angola, with 9.8%. The signing ceremony was attended by the Angola's Secretary of State for Oil and Gas, José Barroso; the acting President of ANPG, Belarmino Chitangueleca; Derek Magness, of Chevron; Joaquim Fernandes, from Sonangol; and Jaime Luzolo, from Eni.</li> </ul>
<p>BOTSWANA</p>	<ul style="list-style-type: none"> <li>• <b><u>WEC Projects to Expand Sewage treatment Plant at Karowe Mine</u></b> WEC Projects has been awarded a contract for roughly US\$189,835 to expand the sewage treatment plant at Botswana's Karowe diamond mine, which is set to cease its open-pit operations by 2026. Lucara, The Karowe diamond mine in Botswana, is located near the hamlet of Letlhakane in the eastern Kalahari Basin. The mine is located more than 1000 meters above sea level in an area where temperatures average 35°C and water is so limited that the Botswana government has implemented obligatory water conservation regulations for enterprises. After the open pit operations are completed, it will continue to mine underground, extending its operational life until roughly 2040.</li> </ul>
<p>SOUTH AFRICA</p>	<ul style="list-style-type: none"> <li>• <b><u>Cape Town's V&amp;A Waterfront to Get a New Desalination Plant</u></b> The V&amp;A Waterfront in Cape Town will get a new desalination plant to assure a fresh water supply during any future crisis that affects South Africa's second-largest metropolis. According to a statement released on Thursday, <u>Growth point Properties Ltd.</u>, the country's largest publicly traded real estate company, gained clearance for the 3.3 megalitre facility. Construction is set to begin in the first quarter of next year.</li> </ul>

EGYPT	<ul style="list-style-type: none"> <li>• <b><u>Construction of 100MW Green Hydrogen Plant in Ain Sokhna, Egypt</u></b> A consortium consisting of Norwegian renewable energy producer Scatec, Abu Dhabi-based fertilizer producer Fertiglobe, the Sovereign Fund of Egypt, and Cairo-based engineering and construction contractor Orascom plan to construct a 100MW Green Hydrogen Plant in Ain Sokhna, a town in the Suez Governorate of Egypt. The facility, which upon completion will be the first of its kind in the Northern Africa country and the largest green hydrogen plant in the world. It will also be the largest green ammonia plant worldwide producing 90,000 tonnes of green ammonia per year.</li> </ul>
GHANA	<ul style="list-style-type: none"> <li>• <b><u>MSWR - Greater Kumasi Metropolitan Area Sanitation and Water</u></b> The Ministry of Sanitation and Water Resources (MSWR) is planning to undertake the construction of water and sanitation project in metropolitan area of Kumasi of Ghana. The project aims at improving access to sanitation and drinking water in the Greater Kumasi Metropolitan Area (GKMA), with a focus on low-income communities and also aimed to contribute to strengthening the management of sanitation services in GKMA. Once completed, the project will supply water to 10,000 low-income households of the Ghana Water Company Limited (GWCL) network. The US\$130 million project includes the Laying of 120km water pipeline.</li> </ul>
LIBYA	<ul style="list-style-type: none"> <li>• <b><u>MOGCO - Bouri Gas Utilization Project</u></b> Mellitah Oil &amp; Gas Company (MOGCO) is planning to undertake the up-gradation of DP4 and DP3 platforms in the Bouri Gas utilization project, Libya. The US\$140 million project includes the Installation of new topside facilities on DP4 and DP3, Installation of 3 new sealines (DP3 to DP4 and DP4 to Sabratah Platform), Installation of fiber optic cables, Installation of SSIV's, Installation of umbilicals, Installation of 14inch 8.5km pipeline connecting DP3 and DP4 to route raw gas from DP3 to DP4, Installation of 10inch CS and 4inch CS 20km pipelines connecting DP4 to Sabratah Platform for dehydrated gas and condensate export from DP4 to Mellitah Plant via Sabratah platform.</li> </ul>
NIGERIA	<ul style="list-style-type: none"> <li>• <b><u>ONHYM - NNPC - Nigeria-Morocco Gas Pipeline - Trans-African Pipeline</u></b> Nigeria and Morocco are planning to implement a huge project to extend a West African gas pipeline to stretch up towards Europe. The approximately 5,700 kilometers (km) gas pipeline is proposed to run from Nigeria to Morocco. The pipeline will add momentum to economic integration in West Africa and will help promote efforts to boost electrification in the region. The project is also meant to help Nigerian gas reach Europe.</li> </ul>

**EUROPE**

NORWAY	<ul style="list-style-type: none"> <li>• <b><u>Maersk drilling awarded one-well exploration contract with omv in norway</u></b> Maersk Drilling has secured a one-well contract with OMV (Norge) AS, which will employ the low-emission jack-up rig Maersk Intrepid to drill a high pressure, high temperature exploration well in the Oswig prospect in Block 30/5C of the Northern North Sea basin offshore Norway. The contract is expected to commence in mid-2022, and Maersk Drilling and OMV (Norge) AS are in discussions to add additional services to the scope. The contract includes a one-well option to drill the Eirik</li> </ul>
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	<p>exploration well.</p> <ul style="list-style-type: none"> <li>• <b><u>Brimmond Group celebrates 25 years with £1.75m contract wins</u></b> Engineering firm Brimmond Group has announced four contract wins worth £1.75 million, marking a successful period of growth for the company as it celebrates its 25th anniversary.</li> </ul>
RUSSIA	<ul style="list-style-type: none"> <li>• <b><u>Lummus, Moscow refinery sign agreement for furnace supply in Russia</u></b> Lummus Technology announced it has been awarded a contract from the Gazpromneft Moscow refinery for two fired heaters. The heaters will be installed at the refinery in Moscow, and are part of the plant's modernization to improve operational efficiency and environmental performance. Lummus' scope includes the design and supply of two fired heaters, adding to the delayed coking technology that CLG, a joint venture between Chevron and Lummus, provided in 2018. Lummus' delayed coking heaters can handle a wide range of feedstocks in refineries and upgrades for both fuel and specialty coke production. Current heater designs work in cooperation with CLG's delayed coking technology and incorporate multiple cabins with single coils to deliver superior individual firing, precise temperature control and stringent air quality standards.</li> <li>• <b><u>RWE inks ammonia, hydrogen and LNG deal with Novatek</u></b> Germany's commodity trader RWE Supply &amp; Trading (S&amp;T) has become the first international company to reach a preliminary agreement with Moscow-based independent Novatek to back its fast progressing plan to produce ammonia and hydrogen on Russia's Yamal Peninsula. A memorandum of understanding signed by both companies this week envisages the supply of yet to be produced low-carbon ammonia and hydrogen by Novatek to RWE.</li> </ul>

## NORTH & SOUTH AMERICA

USA	<ul style="list-style-type: none"> <li>• <b><u>Total restarting small crude unit at Port Arthur refinery</u></b> TotalEnergies SE began restarting the small crude distillation unit (CDU) at its 225,500-bpd Port Arthur, Texas, refinery on Wednesday, sources familiar with plant operations said. A TotalEnergies spokesperson did not reply to a request for comment. The 40,000-bpd ACU-2 CDU was shut in mid-November for repairs after the large CDU restarted following a plant-wide shutdown on Sept. 9, the sources said.</li> <li>• <b><u>Venture Global to invest \$10bn in new LNG facility in Louisiana</u></b> Using carbon capture technologies, the facility expects to capture about 500,000 tonnes of carbon dioxide per year. US liquefied natural gas provider Venture Global has announced it will invest more than \$10 billion into a new LNG facility in Cameron Parish, Louisiana, utilising carbon capture and sequestration (CCS) technologies to reduce emissions. The project, named CP2, expects to produce 20 million tonnes of LNG per year and capture and store about 500,000 tonnes of carbon dioxide emissions annually.</li> <li>• <b><u>St. Croix Energy Wins Bid for Troubled Limetree Bay Refinery</u></b> St. Croix Energy LLP announced that it won the recent auction for the shuttered Limetree Bay refinery in the U.S. Virgin Islands for a reported \$20 million. The company hopes to restart operations at the long-troubled refinery. The Limetree Bay refinery has a processing capacity of</li> </ul>
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approximately 200,000 barrels per day but had been shut in for nearly a decade until it reopened earlier this year under a partnership of EIG and Arclight Capital private equity firms. U.S. regulatory firms shut the project down after only a few months of production due to a host of environmental issues from the refinery. New owner St. Croix Energy LLP does plan to restart operations at the facility, but there is no timetable or specifics at this as previous refining operations are still working through incidents and violations protocol. St. Croix LLP has stated that it plans to operate as “a sustainability driven and environmentally conscientious energy solutions provider”, indicating that this restart could involve renewable energy planning at the facilities.

- **Trinidad to offer 17 blocks in deep-water competitive bid round**

The government of Trinidad and Tobago has launched a competitive bid round featuring 17 deep-water exploration blocks in an effort to attract foreign investments. The round will be open for six months, with the deadline for submissions of offers scheduled for 2 June 2022. Successful bidders will be announced three months following the close,” said the country’s Ministry of Energy and Energy Industries.

- **PennEast Pipeline Company - PennEast Pipeline Project**

PennEast Pipeline company is planning the construction and development of a 193.12 kilometers (km), 36-inch diameter underground pipeline. The PennEast pipeline will originate in Dallas, Luzerne County, in northeast Pennsylvania, and end at Transco's pipeline interconnection near Pennington, Mercer County, New Jersey. The project will reduce energy costs and increase reliability for natural gas and electric consumers in eastern Pennsylvania and New Jersey.

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