

GERAB

BULLETIN

Weekly News



COMMODITY UPDATES

- Oil prices extended gains on Thursday, riding higher on growing fuel demand and a bigger-than-expected draw in U.S. crude inventories as production remains hampered in the Gulf of Mexico after two hurricanes. Brent crude rose 9 cents, or 0.1%, to USD 76.28 a barrel at 0856 GMT. U.S. West Texas Intermediate (WTI) crude was up 4 cents, or 0.1%, to USD 72.27 a barrel. Source-Reuters
- Gas prices have risen sharply around the globe in recent months due to a combination of factors; including increased demand particularly from Asia as it enters its post-pandemic recovery; low gas inventories; and tighter-than-usual gas supplies from Russia. Gas prices in Europe have risen more than 250% this year, while Asia has seen about a 175% increase since late January. In the United States, prices have surged to multi-year highs and are about double where they were at the start of the year. Some companies, including steel producers, fertilizer manufacturers and glass makers, have had to suspend or reduce production in Europe and Asia as a result of spiking energy prices. That includes two of the world's largest fertilizer makers, which said they would cut production in Europe. Source-Reuters

Commodity	UOM	Latest Price	WTD %	MTD %	3MTD %	6MTD %	YTD %
Chromium	USD/MT	9621.48	2.59	7.32	7.75	31.02	44.26
Coal	USD/MT	192.46	2.25	3.71	41.87	101.05	208.38
Cobalt	USD/MT	51982.59	3.01	0.27	17.80	-0.92	55.26
Copper	USD/MT	9372.72	-2.51	-0.03	-2.15	3.95	40.31
Crude Oil	USD/BBL	71.91	0.44	3.37	-0.75	12.02	81.29
Crude Oil Brent	USD/BBL	72.63	0.44	2.40	-1.14	10.29	73.48
Crude Oil WTI	USD/BBL	68.84	-3.24	0.94	-3.64	10.09	83.00
Iron Ore	USD/MT	131.76	-12.14	-21.06	-37.56	-22.01	4.50
Molybdenum	USD/MT	43731.16	-0.40	4.70	16.03	64.41	139.47
Natural Gas	USD/MCF	5.08	-6.33	22.23	49.32	86.65	115.71
Nickel	USD/MT	19548.75	-2.79	1.60	8.63	18.23	31.10
Steel HRC (FOB China)	USD/MT	912.40	-2.17	-1.83	-0.05	27.78	77.45
Steel HRC (N. America)	USD/MT	2141.29	0.00	2.48	16.76	51.90	244.04
Steel Rebar	USD/MT	887.81	1.57	-0.60	6.08	12.03	48.63
Steel Scrap	USD/MT	453.61	-2.11	-3.68	-10.38	-2.40	53.06

Source: Investing.com / Trading Economics / London Metal Exchange / MarketIndex.com.au / OilPrice.com

INTERNATIONAL RIG COUNTS

Active Rig Counts by Region					
Region	Latest Count	MTD %	3MTD %	6MTD %	YTD %
United Arab Emirates	37	-13.95	-13.95	-15.91	-27.45
GCC	175	-1.13	-6.42	-9.33	-23.58
Middle East	261	-0.76	-1.88	0.38	-13.29
Africa	68	11.48	15.25	30.77	19.30
Asia-Pacific	183	5.78	7.65	21.19	-3.68
Europe	95	6.74	6.74	11.76	-2.06
Latin America	137	3.01	1.48	9.60	82.67
North America	648	-0.92	8.72	30.38	96.96
Total	1392	1.38	5.86	18.97	32.70

Source- Baker Hughes

Source- International Monetary Fund

Currency Exchange Rate						
Currency	Latest Value USD	WTD %	MTD %	3MTD %	6MTD %	YTD%
Chinese Yuan	0.155	0.040	0.370	-0.430	0.880	5.530
Euro	1.174	-0.460	-0.290	-2.570	-1.350	-0.430
Japanese Yen	0.009	0.200	0.260	0.510	-0.830	-3.520
U.K.Pound	1.369	-1.030	-0.840	-2.450	-1.230	5.630

UPDATES AROUND THE GLOBE

MIDDLE EAST

UAE

- ADNOC Onshore - Asab Oil Field - Relocation of Gas Injection Trunkline & Associated Units**
 ADNOC Onshore has announced plans to redevelop the gas injection trunk line network at the Asab oil field, UAE. The 3 main gas injection trunk lines (ITL) that reinject associated gas processed by the Asab gas plant back into the fields reservoirs for maintaining pressure and sustaining oil production from the asset.
- ADNOC Onshore - Bab 485 MBD Sustainable Facilities**
 ADNOC Onshore has plans to install and modify sustainable facilities for its BAB Onshore gas field. The upgrade on the facilities is to strengthen ADNOC's upstream growth plans. The project will enable to minimize life-cycle costs on the field and will deploy cutting-edge technologies to progressively and efficiently unlock the full potential of the field's existing assets and wells while tapping into new reservoirs to sustain long-term production output.

- **EWEC - Al Dhafra 2 GW Photovoltaic Solar Plant**
Emirates Water and Electricity Company (EWEC) plans to develop a greenfield 2GW Photovoltaic (PV) Solar plant in Al Dhafra, around 50 km from the UAE capital. The project's main objective is to support the Emirate's achievements in sustainability and energy diversification through the usage of clean energy. The project is expected to cover an area of 20 square kilometers and generate adequate electricity to power approximately 160,000 households across the UAE.
- **ADNOC Gas Processing - Northern Emirates Gas Network Upgrade**
Adnoc Gas Processing is aiming to increase the gas supply network to meet the demands of its customers in the Northern Emirates. In 2018, in house studies were conducted and results have shown that the upgrade will increase the capacity from 450 million cubic feet a day (cf/d) to 500 million cf/d. The upgrade is part of ADNOC Group's 2030 objective to ensure a sustainable and economic supply of gas.
- **ADNOC Gas Processing is planning to undertake the upgrade of the Taweelah gas compressor station (TGCS) to increase its capacity to 500 million cf/d in Abu Dhabi, the UAE.**
Technical bid submission took place on September 19, 2021. Al Asab Est, Al Jaber Energy Services, Descon Engineering, Galfar Engineering & Contracting, Kalaptaru, Robstone LLC, Target Engineering have submitted the technical bids for the project.
- **ADNOC Gas Processing is planning to undertake the laying of an additional 30" Margham pipeline facility outside Abu Dhabi, the UAE.**
Contractors have submitted technical bids for a section of a project undertaken by the gas processing arm of Abu Dhabi National Oil Company (Adnoc Gas Processing) to upgrade its sales gas pipeline network across the UAE. ADNOC Gas Processing is planning to undertake the laying of new 48" pipeline and associated facilities (BVS-06 to SAJJA) along with 20" and 24" pipeline's connection outside Abu Dhabi, the UAE. ADNOC Gas Processing is planning to undertake the laying of pipeline 56" from Habshan Plant to new HGCP and 52" from HGCP to BVS-03 in Abu Dhabi, the UAE.

BAHRAIN

- **Tatweer Petroleum (TP) is planning the off plot infrastructure works for ABWTF in Bahrain.**
Firm submitted a bid of \$28.01m for a Tatweer Petroleum tender covering the installation of off-plot infrastructure.
- **Petrofac scoops EPCC prize in Bahrain**
Oil and gas services giant Petrofac has been awarded a new multi-million-dollar contract by Tatweer Petroleum to support its gas distribution network project in Bahrain. The engineering, procurement, construction and commissioning (EPCC) workscope includes high-pressure gas pipelines and fibre optic cabling. The underground pipelines will run through sections onshore and offshore below the seabed in support of gas supply to the kingdom and will be designed for "full interchangeability", according to Petrofac.

EGYPT

- **Egyptian Natural Gas Holding Company (EGAS) and Egyptian Petrochemicals Holding Company (ECHEM) are planning to undertake the construction of a blue ammonia plant in Egypt.**
The client has signed an MoU with Japan's Toyota Tsusho to conduct economic feasibility study to implement the project. The economic feasibility study is expected to be completed by March 2022.

	<ul style="list-style-type: none"> <u>ETHYDCO - Polybutadiene Plant</u> The Egyptian Ethylene and Derivatives Company (Ethydco) is planning to build a polybutadiene production project with an expected production capacity of 36,000 MT/Y. The polybutadiene production project, the first of its kind in Africa, The new project is a major step for Ethydco's complex expansion. The ministry aims to develop and upgrade the petrochemical industry through this project under the supervision of the Egyptian Petrochemicals Holding Company (ECHEM). The product, polybutadiene can be used in 13 different industries such as car wheels, construction industries and conveyors.
IRAQ	<ul style="list-style-type: none"> <u>Iraq allowed Turkey to build an oil refinery near Mosul</u> Iraq has signed an initial agreement with Sweden's SEAB and Turkey's Limak to build a 70,000 barrels per day refinery near the northern city of Mosul. <u>Iraq Strategic Crude Oil Export Pipeline: Haditha - Aqaba Pipeline</u> Iraq Ministry of Oil (MoO) is planning to undertake the construction of the Strategic Crude Oil Export Pipeline from Iraq to Jordan. The pipeline will have a capacity of transporting 1 million BPD of oil. (BOOT Contract). <u>Iraq Ministry of Oil (MoO) is planning to undertake the upgrade of an oil refinery with a production capacity from 20,000 BPD to 90,000 BPD in Qayara, Iraq.</u> The client has signed an initial agreement with Sweden's SEAB and Turkey's Limak to develop the project. <u>LUKOIL - West Qurna Oil Field Development (Phase 2) - Gas Turbine Power Plant</u> The consortium of Lukoil and North Oil Company plans to build a 126 MW power plant as part of the West Qurna Oil Field Phase 2 development. Located 65 kilometers (km) northwest of Basra in southern Iraq. West Qurna Oil Field is one of the world's largest fields. The field's initial recoverable reserves come to around 14 billion barrels.
KUWAIT	<ul style="list-style-type: none"> <u>A joint venture of Kuwait's Ministry of Electricity (MEW) and Kuwait Institute of Scientific Research (KISR) planned to develop a solar plant with 1500MW capacity called the Al Dibdibah solar IPP project as the second phase of the Shagaya Renewable Energy Complex. It would be located in the northwest of Kuwait in an area of 3200ha.</u> The following companies have submitted the bids for transaction advisory contracts: Engineering Systems Group (ESG), RINA Consulting SpA, Ernst & Young, Alghanim Wormald, Khatib & Alami, WSP, and PricewaterhouseCoopers Al-Shatti & Co. <u>Kuwait's Oil Production Plans Are Ambitious</u> Kuwait's plans announced last week to invest at least US\$6.1 billion in exploration over the next five years in order to increase production to a minimum of 4 million barrels per day (bpd) by 2040 up from the 2020 average of 2.43 million bpd.
OMAN	<ul style="list-style-type: none"> <u>Al Hadeetha Resources LLC (AHR) is planning to build a Copper plant as a part of Washihi-Mullaq-Al Ajal Copper-Gold Mine Development in North Batinah, Oman.</u> The front-end engineering and design (feed) work has been completed for the copper plant that forms part of the planned gold and copper mine development in Oman's North Batinah region. The copper plant package is estimated to be worth \$50m and is one of the three main packages for the planned mine development across the Al-Ajal, Washihi and Mullaq licences, according to regional projects tracker MEED Projects. The three licences cover an area of 80 square kilometres

and are located about 80 kilometres from Daris Copper-Gold project (block 7), which is operated by Alara Resources.

QATAR

- **NOC - Al Shaheen Offshore Field Development Plan - Phase 3 (Gallaf Phase 3) - Wellhead Platforms and Modifications - Package 3 - Subsea Pipelines**
NOC is a joint venture in which Qatar Petroleum (QP) has a 70% stake and France's Total has 30%. The Gallaf project is a multi-phase development to maintain Al-Shaheen's production capacity at a plateau of 300,000 barrels a day (b/d) of oil. Situated 80 kilometers north of Ras Laffan, Al-Shaheen has one of the world's biggest oil reserves. It is Qatar's largest oil field, contributing to about 45 % of the country's oil production. Gallaf 3 has divided into 4 packages, package 3 includes multiple segments of subsea pipelines totaling up to 50 kilometres.
- **Qatargas - North Field Expansion Project - Onshore Facilities - Package 4 - Sulphur Handling Facilities**
As part of the North Field Expansion (NFE) program, the project includes the fourth onshore package which involving the sulphur-handling facilities.
- **Qatargas - North Field Expansion Project - Onshore Facilities - Overview**
Qatar Petroleum plans to push forward with the North Field Expansion project to increase the country's LNG export capacity from 77 to 110 million tonnes per annum (mtpa). Qatar Petroleum has appointed its subsidiary, Qatargas, to execute the expansion project on its behalf. New production from the field is expected to commence within 5-7 years, targeting gas exports of 2 billion standard cubic feet per day.
- **Battle begins for huge Qatar platform contract**
Offshore EPC package is likely valued at between \$2 billion and \$2.5 billion. Five leading international contractors or consortia are poised to battle it out for an offshore order from Qatargas involving two massive offshore compression "super-complexes" required for its giant North Field.

SAUDI ARABIA

- **Saudi Aramco is planning the development of the Zuluf Oil Field in the Eastern Province of Saudi Arabia, approximately 260 km north of Dhahran, approximately 2 km east of the New Tanajib Gas Plant, and 6 km west of Tanajib Airport.**
The technical bid submission deadline has been extended from September 11, 2021 to October 24, 2021 and the commercial bid submission deadline has been extended from September 25, 2021 to October 31, 2021 on Onshore Package 1 & 2.
- **Renewable Energy Project Development Office (REPDO) is planning to undertake the construction of a power plant in Layla, a town in Al-Aflaj, Saudi Arabia.**
The main contract bids are under evaluation and is expected to get awarded by early October 2021.
- **South Jeddah Noor - Jeddah 300 MW Solar PV Plant**
Renewable Energy Project Development Office (REPDO), under the National Renewable Energy Program (NREP), will build a 300 MW solar photovoltaic power plant in Jeddah.. The initiative is aligned with the National Transformation Program 2020 and aims towards achieving energy goals according to Saudi Vision 2030. The initiative will result in remarkable reduction in greenhouse gases such as carbon dioxide by 8 million tons per year.

- **Saipem, Aramco sign EPC co-operation MoU**
Italian engineering firm Saipem and state oil giant Saudi Aramco signed September 21 a memorandum of understanding to jointly explore the possibility of setting up an entity to execute engineering and construction (EPC) activities in the kingdom. The signature took place under the auspices of Saudi Aramco's Nama'at Investment Industrial Programme, which is focused on building capacity in sustainability; technology; industry; and advanced materials. The agreement entails the potential creation, in partnership with local entities, of an "EPC National Champion" capable of executing the full range of engineering, procurement and construction projects, maximising the employment of local resources.

AFRICA

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| ALGERIA | <ul style="list-style-type: none"> • <u>Algeria revives plans for construction of Trans-Saharan Gas Pipeline</u>
The government of Nigeria is reportedly making strides towards the revival of the stalled Trans-Saharan Gas Pipeline project that has been on the pipeline since the 1970s. "This project will have a significant social and economic impact in the transit countries, within the framework of environmental protection and sustainable development. |
| ANGOLA | <ul style="list-style-type: none"> • <u>Sonangol - Cabinda Refinery - Overview</u>
Considering the fact that the country's current refinery production covers just 20% of the market's needs, Sonangol plans to develop a small capacity refinery in Cabinda in order to make this province self-sufficient. The construction of the Cabinda refinery is part of the National Development Plan under the government's strategy of reducing the cost of importing oil derivatives. |
| KENYA | <ul style="list-style-type: none"> • <u>Tullow unveils beefed up \$3.4bn Kenya oil project</u>
Hopes high that revamped 120,000 bpd scheme will attract new investors . Tullow Oil and its partners in the long-delayed South Lokichar oil project in Kenya have come up with a revamped \$3.4 billion development plan based on a higher production rate. |
| MOROCCO | <ul style="list-style-type: none"> • <u>Sound Energy is planning the development of a gas pipeline connecting Tandrara field to the Gazoduc Maghreb Europe (GME) pipeline.</u>
Sound Energy is planning the development of a gas pipeline connecting Tandrara field to the Gazoduc Maghreb Europe (GME) pipeline. The future Tandrara Gas Export Pipeline (TGEP) will be under a Built-Own-Operate-Transfer scheme and is expected to have a gross capital cost of approximately \$160 million. The project will enable the connection to the Moroccan and Southern European gas markets and is expected to support the company's strategy to access infrastructure connected to growing domestic and international gas markets. |
| MOZAMBIQUE | <ul style="list-style-type: none"> • <u>Ncondezi Energy - Tete Integrated Power Plant and Coal Mine</u>
Ncondezi Energy plans to develop an integrated thermal coal mine and 300-megawatt power plant, located in the Tete Province of northern Mozambique, to supply electricity to the Northern Grid. • <u>South Africa: Sasol in 'advanced' talks on LNG imports and eyes new acreage in Mozambique</u>
Sasol and the Central Energy Fund (CEF) have signed a memorandum of understanding (MoU) on accelerating gas developments in South Africa. |

<p style="text-align: center;">NIGERIA</p>	<ul style="list-style-type: none"> <p>• <u>OLAX Engineering Wins Significant PMC Agreement for Nigeria’s BUA Refinery</u> OLAX Engineering of the United Kingdom announced this week that it had been awarded an Owners Engineers and Project Management Services Contract for the upcoming FEED phase of the grassroots BUA refinery to be placed in Ibeno, Akwa Ibom State, Nigeria. OLAX has already placed a project management team to oversee the contractors and licensors for the BUA complex, while the FEED project execution team will come from the company’s UK and Nigerian offices. The multibillion-dollar 200,000 barrel per day BUA refinery is endeavoring towards a startup in 2024 and is being envisioned to produce Euro-V quality level fuels such as gasoline, diesel, jet fuel, and LPG for both domestic and regional markets. The BUA complex is also plotting a polypropylene unit for the production of 285,000 tons per year.</p> <p>• <u>New Mega-Refinery in Nigeria To Make Waves in the Tanker Market</u> The tanker sector is about to witness a dramatic impact from the Dangote Refinery, currently under construction in Nigeria. The biggest refinery in Africa is expected to make its mark in the tanker market. Nigerian National Petroleum Company (NNPC) intends to take a 20% stake in the \$18 billion under-construction Dangote Refinery. A couple of weeks later it was announced that NNPC will supply at least 300k b/d of crude to the 650 k b/d refinery. This is a bold move as it will bolster domestic supply security to the new refinery and guarantee an outlet for the country’s crude.</p>
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ASIA

<p style="text-align: center;">Azerbaijan</p>	<ul style="list-style-type: none"> <p>• <u>Baku to send Turkmen oil via pipeline to Turkish Ceyhan</u> The State Oil Company of Azerbaijan (SOCAR) and the Swiss-Dutch company Vitol have agreed to transport about 1 million tons of Turkmen oil per year via the Baku-Tbilisi-Ceyhan (BTC) pipeline.</p>
<p style="text-align: center;">INDIA</p>	<ul style="list-style-type: none"> <p>• <u>GAIL adds Grace PP Technology to Upcoming Plant in India</u> W.R. Grace & Co has licensed its UNIPOL® PP process technology to GAIL of India for its upcoming propane dehydrogenation (PDH) and polypropylene (PP) plant located in Usar, Maharashtra, India. This facility will be the first PDH/PP plant to be built in India. The plant in Usar is being planned for a startup in 2024 as a conversion project from an existing LPG plant onsite. This 500,000 tpy facility will be the second facility that GAIL has contracted Grace for its UNIPOL® PP process.</p> <p>• <u>IOCL - Gujarat Refinery Expansion (J18-Capacity Expansion Project)</u> The capacity expansion from 13.7 Million Metric Tonne Per Annum (MMTPA) to 18.0 MMTPA of crude oil with a 100% BS-VI auto fuel production project is proposed within the existing refinery complex and nearby Bajwa and Y2 plot of IOCL's Gujrat Refinery at Koyali near Vadodara city. Upon completion, the overall processing capacity and efficiency of the refinery will increase and improve the profitability of the refinery by installing multiple secondary processing units.</p> <p>• <u>HURL - Barauni Fertilizer Plant Revival</u> Hindustan Fertilizer Corporation proposed to revive its Barauni fertilizer plant in the state of Bihar. The revival of Barauni Fertilizer Plant is carried out by means of a Special Purpose Vehicle of Public Sector Undertakings.</p> <p>• <u>NRL - Numaligarh Refinery Expansion Project (NREP)</u> Numaligarh Refinery Limited (NRL) intends to install a parallel new refinery of crude processing capacity of 6 Million Metric Tonne Per Annum (MMTPA) to expand its capacity from present 3 MMTPA to 9 MMTPA. The project has been named as Numaligarh Refinery Expansion Project</p>

(NREP). The project is integrated with a new crude oil pipeline from Paradip (Odisha) to Numaligarh (Assam) and a product pipeline from Numaligarh to Siliguri where NRL has its own Marketing Terminal for distribution of product.

- **IOCL - Barauni Refinery Expansion**

Rapid growth in demand for refined products and a widening price differential between low sulfur and high sulfur/heavy crudes have opened the opportunity for improving refining margin. To exploit this opportunity IndianOil Corporation (IOCL) plans to augment the capacity of Barauni Refinery from the current installed capacity of 6.0 Metric Million Tonne per Annum (MMTPA) to 9.0 MMTPA along-with feasibility of production of Petrochemical product. The Barauni refinery is located in Begusarai District, Bihar, India.

- **Haldia Petrochemicals eyes \$30-billion expansion, may hit Street**

Haldia Petrochemicals (HPL), the flagship firm of the Purnendu Chatterjee-owned The Chatterjee Group (TCG), plans to set up one petrochemical complex each in Tamil Nadu, Andhra Pradesh, and Odisha, at a combined investment of around \$30 billion. Sources familiar with the development said the company is considering either an initial public offering (IPO) or roping in a strategic investor to partially fund the mega investment plans. According to three sources close to the development, the company will set up three crude-to-polymer projects simultaneously at Cuddalore in Tamil Nadu,

- **L&T wins over Rs 1,000 cr order from Petronet for 2 LNG storage tanks**

Larsen & Toubro (L&T) on Monday said its wholly-owned subsidiary L&T Hydrocarbon Engineering (LTHE) has won a 'significant' order from Petronet LNG for two LNG storage tanks. L&T classifies orders with a value of Rs 1,000-2,500 crore as significant. Petronet LNG is a joint venture company promoted by four leading PSUs -- Oil & Natural Gas Corporation (ONGC), Indian Oil Corporation (IOCL), GAIL (India) and Bharat Petroleum Corporation (BPCL). "The contract is for engineering, procurement, construction and commissioning of two LNG storage tanks with a capacity of 170,000 m3 each for Phase IIIB of the Dahej Expansion Project at Dahej, Gujarat.

JAPAN

- **Japan and Russia set to launch \$9bn LNG project in Far East**

Consortium including Itochu, Rosneft and Exxon look to begin production in 2027. The project could cost 1 trillion yen (\$9.1 billion). The parties plan to award an engineering design contract to companies such as Bechtel, Technip FMC and McDermott. Marketing activities mainly in Asia will begin simultaneously. Thereafter, the parties aim to have a final investment decision in 2021 and start production in 2027.

SRI LANKA

- **Sri Lanka's LNG dream dawns**

New Fortress Energy signs definitive agreement that could see maiden imports in 2023. NASDAQ-listed New Fortress Energy has signed a definitive agreement with the Sri Lanka government to develop a liquefied natural gas facility off the coast of Colombo, the commercial and judicial capital. New Fortress and the government confirmed on Tuesday they had executed a definitive agreement for New Fortress' investment in West Coast Power, which owns the 310-megawatt Yugadanavi power plant in Colombo, plus the rights to develop a new LNG receiving and regasification facility.

AUSTRALIA

AUSTRALIA

- **Aussies confirm a major onshore gas discovery**
JV partner reveals more well data on Lockyer Deep-1 with production testing to come. The latest conventional gas discovery in Western Australia's onshore Perth basin is expected to exceed the pre-drill high case prospective resource of in excess of 1 trillion cubic feet.

EUROPE

GERMANY

- **ArcelorMittal - Hydrogen-Based Direct Reduced Steel Plant in Hamburg**
ArcelorMittal plans to construct an industrial hydrogen-based direct reduced steel plant in its existing steel plant in Hamburg. The procedure of reducing iron ore with hydrogen will be tested using grey hydrogen obtained from gas separation. A total of 100,000 tons of direct reduced iron will be produced annually at the demonstration plant. The pressure swing adsorption technique will be applied to isolate H₂ with a purity of 95% from the existing blast furnace gas. The plant will be run on green hydrogen when it becomes available in significant quantities and at acceptable prices.
- **Enapter - Electrolyser Mass Production Facility in North Rhine-Westphalia**
The German cleantech company, Enapter, reveals plans to build a mass-production facility for green hydrogen-producing electrolyzers located in Saerbeck in North Rhine-Westphalia. The project will run solely on locally generated solar, wind and biomass energy with a zero-waste operation. Enapter aims to produce 10,000 Anion Exchange Membrane (AEM) electrolyzers a month. The facility will be built on an 82,000-square-metre site which will accommodate a plant.

NORWAY

- **Aker Solutions awarded two FEED contracts in Norway /Subsea 7 wins NOA Fulla FEED**
Aker Solutions has been awarded two platform FEED contracts for Aker BP's NOA Fulla development on the Norwegian Continental Shelf. Subsea 7 has been awarded a contract by Aker BP for the NOA Fulla development project, offshore Norway.

RUSSIA

- **Lukoil to Add Catalytic Cracking Unit to its Perm Refinery**
Lukoil recently signed a memorandum of understanding with the Ministry of Energy of the Russian Federation to start the process of implementing a grassroots catalytic cracking project at the company's existing Perm refinery site in the North Urals region of Russia. Lukoil is planning to move to a construction phase next with a planned startup in 2026. This catalytic cracking unit will have a feedstock capacity of 1.8 million tons per year, according to Lukoil's Head of Investor Relations, Alexander Palivoda. This facility will process vacuum gas oil into an unspecified amount of high-octane motor gasoline and an adjustable yield of propylene, with the latter expected to be utilized as feedstock for Lukoil petrochemical operations.
- **Ust-Luga Gas Complex Picks Linde and RHI for EPC Duties**
Gazprom recently announced that it had signed an EPC contract with a consortium comprised of Linde Engineering and Renaissance Heavy Industries (RHI) for work to be performed for a natural gas liquefaction plant at an upcoming gas processing complex developing near Ust-Luga. This significant venture will be operated by a joint venture of Gazprom and RusGazDobycha named RusKhimAlyans. This EPC will see Linde and RHI tasked with providing design works, equipment/material supplies, and construction/installation for two LNG production trains at the

	<p>site with a combined capacity of 13 million tons per year. RushKhimDobycha is working to place the first train into operations in late 2023 with full operations anticipated by the end of 2024.</p> <ul style="list-style-type: none"> • <u>Lukoil takes Shell's place in Russian oil and gas venture</u> Russian state-controlled oil producer Gazprom Neft has agreed to form an exploration and development joint venture with privately held compatriot Lukoil, covering several major oil and gas assets in the Yamal-Nenets region in West Siberia. The partners have an equal interest of 50% in the venture, which will develop three fields — Tazovskoye, North Samburgskoye and Meretoyakhinskoye — as well as explore two West Yubileyny blocks in the region. • <u>NFP - Nakhodka Methanol & Fertilizer Plant (NZMU)</u> Nakhodka Methanol & Fertilizer Plant is a greenfield project, which is located in near Port of Vostochny seaport in the the village Kozmino, near the city of Nakhodka and occupies the land of 628 hectares. The plant intends to supply the products to China, India, Southeast Asia and Latin America. Once completed the plant will be world's largest plant for the production of methanol and fertilizers. The project aim is to develop Far East Region and Russia's chemical industry. • <u>YATEC - Yakutia Gas Cluster</u> New project will be located in Yakutia, Sakha Republic. The aim of the project is to increase the volume of reserves of YATEC to 1 trillion cubic meters of gas by 2026.
NETHERLAND	<ul style="list-style-type: none"> • <u>Shell Moves Forward with Large Netherlands Biofuels Facility</u> Royal Dutch Shell recently announced that it has made a final investment decision regarding the construction of an 820,000 tons per year biofuels facility at the Shell Energy and Chemicals Park Rotterdam in the Netherlands, which was previously referred to as the Pernis Refinery site. Once operational in 2024, this biofuels facility will one of the largest European facilities producing sustainable aviation fuel (SAF) and renewable diesel made from a waste product feedstock.
SCOTLAND	<ul style="list-style-type: none"> • <u>Well-Safe secures North Sea decom contract from Repsol Sinopec</u> Aberdeen-based Well-Safe Solutions has secured a multi-million-pound contract from Repsol Sinopec to execute the decommissioning of all wells in its Buchan and Hannay fields in the UK North Sea. The contract includes 14 subsea wells with offshore activities planned to commence in 2022.

FAR EAST	
CHINA	<ul style="list-style-type: none"> • <u>SABIC, China's FJPEC in JV pact for \$6-bn petrochemical complex</u> The Saudi Basic Industries Corporation (SABIC) and China's Fujian Petrochemical Industrial Group Company (FJPEC) recently signed a joint venture (JV) agreement to build a petrochemical complex in east China's Fujian province. The \$6-billion steam cracker and ethylene downstream project would be built at the Gulei Industrial Park.
INDONESIA	<ul style="list-style-type: none"> • <u>Freeport Indonesia - Manyar Smelter Complex</u> Freeport Indonesia (PTFI) plans to build Manyar Smelter Complex that can process copper concentrate up to 1.7 million tons per year (mt/y), which will be supplied by PTFI's Grasberg mine in Papua. Upon start-up, it is expected to be the largest copper processing site worldwide. The copper smelter complex will include a copper electrolytic refinery, gas cleaning and sulphuric acid plant, slag concentrator, effluent (liquid waste/ sewage) treatment plant.

MALAYSIA	<ul style="list-style-type: none"> • <u>Petronas evaluates bids for newbuild floating LNG FEED to EPC prize</u> Malaysia's national oil company in market for a third unit to be deployed offshore Sabah. Malaysia's national oil company Petronas is evaluating bids for the front-end engineering and design prize for what could be the operator's third floating liquefied natural gas vessel after the extended submission deadline closed on 31 August. Contractors understood to be definitely in the fray are Japan's JGC, Italy's Saipem and Technip Energies of France, according to industry sources. Worley of Australia, US contractor KBR and Wood of the UK had also earlier been put in the frame as FEED contenders, but it could not be confirmed if they ultimately submitted bids.
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NORTH & SOUTH AMERICA

DAKOTA	<ul style="list-style-type: none"> • <u>North Dakota Davis Refinery in Belfield to begin construction next year</u> Construction of the Davis Refinery in Belfield, North Dakota, has been scheduled to begin construction in 2022 as confirmed by Meridian Energy Group, a Texas-based company. The project has faced several delays due to state environmental regulators who were not particularly fond of the idea of an oil refinery being constructed just 3 miles away from the only National Park in the state.
GUYANA	<ul style="list-style-type: none"> • <u>ExxonMobil announces discovery at Pinktail, offshore Guyana</u> ExxonMobil today said it made a discovery at Pinktail in the Stabroek Block offshore Guyana. The Pinktail well encountered 220 feet (67 meters) of net pay in high quality hydrocarbon bearing sandstone reservoirs. In addition to successful appraisal of the Turbot discovery, the Turbot-2 well encountered 43 feet (13 meters) of net pay in a newly identified, high quality hydrocarbon bearing sandstone reservoir separate from the 75 feet (23 meters) of high quality, oil bearing sandstone reservoir pay encountered in the original Turbot-1 discovery well.
MONTANA	<ul style="list-style-type: none"> • <u>Calumet Awards EPC Contract to Burns & McDonnell for Renewable Diesel Project</u> Calumet Specialty Products Partners of Indiana has brought on Burns & McDonnell to serve as the Engineering, Procurement, and Construction (EPC) contractor for an upcoming renewable diesel reconfiguration project at the Great Falls facility in Montana. This project is being fast tracked with the intention of starting up new production in the first half of 2022. This revamp at the Great Falls site involves the reconfiguration of an existing hydrocracker onsite to produce 12,000 barrels per day of renewable diesel. Aside from the initial renewable diesel production, the project plans to include renewable hydrogen production and a forward-looking option for aviation fuel flexibility. Calumet has tasked Burns and McDonnell for a variety of services at this project such as front-end engineering, detailed design engineering, the procurement of necessary equipment and materials, and the construction process itself.

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