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Packers Plus opens new Dammam facility
The facility is poised to bolster regional energy solutions and foster sustainable development while contributing to the Kingdom's industrial and economic goals – Page 6



Unpacking intrusion protection for O&G
By layering security solutions, companies can safeguard their facilities in a reliable and cost-effective manner, while experiencing future growth and expansion – Page 10



YBA Kanoo drives innovation, localisation
The group showcased new equipment partnerships and innovations during an open day, while separately signed an agreement to advance local manufacturing efforts – Page 16

ENERGY SECTOR'S CONFIDENCE IN NET-ZERO GOALS PLUMMETS

● Industry leaders warn against unstable policy, weak investment

ENERGY industry confidence in reaching global net-zero targets is fading as policy instability, financial uncertainty and slow project approvals continue to hinder progress, according to Net Zero Jeopardy Report II by the Energy Industries Council's (EIC), the world-leading trade association for the energy supply chain industry.

Only 16 per cent of senior energy executives interviewed now believe the world can achieve net-zero by 2050, down from 45 per cent last year. The report, based on interviews with EIC member companies mostly based in the UK, points to growing concerns over the lack of clear regulatory frameworks, underinvestment in clean technologies and delays in bringing projects to the final investment decision (FID) stage.

"The energy industry is facing real challenges in turning pledges into projects," says Stuart Broadley, EIC CEO. "Business leaders are not seeing the level of policy certainty or investment required to deliver net-zero ambitions."

Confidence in interim net-zero targets is even lower. Only 14 per cent of respondents believe their country will meet 2030 climate goals, down from 16 per cent in last year's report. Globally, 5 per cent believe interim targets will be met, compared to 11 per cent a year ago.

"Industry leaders are not merely expressing frustration, they are passionately warning about fundamental barriers, including unstable policy, weak investment appetite, and slow project approvals. And these barriers, if



A clear path toward net-zero includes ensuring the commercial viability of energy projects

left without tackling, will no doubt derail the energy transition," says Mahmoud Habboush, author of the Net Zero Jeopardy II report.

He adds: "For many, one clear path toward net zero is ensuring that energy projects are commercially viable. For that to happen, work needs to be done on the demand side, including facilitating a regulatory environment conducive to creating demand. This

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will make banks less apprehensive, and more capital will flow."

The offshore wind sector highlights the challenges in scaling up clean energy. Current installations in the UK and Europe are largely a result of investment decisions made a decade ago, which raises serious concerns over whether future targets will be met.

The slow pace of new projects moving from planning to construction is linked to lengthy

permitting processes, grid access constraints and an uncertain investment climate.

A key issue is financing. Investors remain cautious about backing new clean technologies, particularly in sectors such as hydrogen, carbon capture and storage, and grid infrastructure. Executives say that while the private sector is willing to invest, the absence of long-term, stable policies creates financial risk.

The report points out that rates for clean energy projects remain very low. Despite ambitious targets, only 10 per cent of offshore wind projects and 9 per cent of hydrogen projects have reached FID, compared to 21 per cent for upstream oil and gas.

Executives also raised concerns about supply chain vulnerabilities, particularly in clean technology manufacturing and logistics. The report notes that many components for renewable energy projects are sourced from China, which increases reliance on a single market.

Riyal symbol reinforces KSA in global economy

IN a historic move that will reinforce the national currency's identity, Saudi Arabia has unveiled a unique symbol for the national currency.

The initiative signifies the increasingly important role of the Riyal in the global financial ecosystem.

Saudi Central Bank (SAMA) Governor Ayman Al-Sayari said the decision reinforces the Kingdom's integration into the global financial systems and its emergence as an advanced financial hub.

The Saudi riyal symbol, developed to the highest technical standards, embodies the Kingdom's rich cultural heritage, carrying the name of the national currency 'Riyal' in a design derived from Arabic calligraphy.



Product-level decarbonisation: The Path Forward

AS the GCC continues to position itself as a global energy leader, transitioning to product-level decarbonisation represents a pivotal opportunity to lead by example.

Major energy players in the GCC are now obligated to report their overall carbon emissions under UNFCCC guidelines.

New carbon policies and regulatory frameworks are increasingly emphasising the carbon footprint of products.

This shift reflects demand for transparency regarding the emissions associated with or embedded in individual products along their entire value chain, from extraction of raw materials, through processing, manufacturing, logistics and even end-of-life.

By adopting product-level decarbonisation, GCC energy companies can transform regulatory pressures into growth opportunities, securing their position as leaders in the global energy transition," says James Thomas, Partner at Strategy& Middle East.

Shifting to product-level carbon accounting offers GCC energy players several strategic advantages, such as enabling tailored emissions reductions to meet market standards, improving compliance with global policies and enhancing product transparency to build customer trust and reputation. Additionally, it establishes flexibility for adapting to shifting policies and market dynamics, ensuring long-term resilience.

By taking these steps now, GCC energy companies will be well-positioned to navigate future changes, fostering resilience and growth in a carbon-conscious world.



GCC topped globally with 17mbpd oil output

GCC countries ranked first in crude oil production, crude oil reserves, crude oil exports and natural gas reserves, according to data issued by the Statistical Centre for the Cooperation Council for the Arab Countries of the Gulf (GCC-Stat).

The GCC-Stat data indicates that the GCC states produced about 17 million barrels per day (mbpd) in 2023, accounting for 23.2 per cent of the total global crude oil production. This was despite a 6.8 per cent decrease in crude oil production in 2023 compared to 2022.

Additionally, the GCC countries ranked second worldwide in

natural gas exports and third in marketed natural gas production.

The GCC's crude oil reserves in 2023 reached about 511.9 billion barrels, which accounted for 32.6 per cent of the world total, recording an average annual growth rate of 0.3 per cent from 2014 to 2023.

The region exported about 12.4 mbpd in 2023, representing 28.2 per cent of the total global exports, despite a decrease in exports in 2023 by 8.2 per cent compared to 2022.

The GCC ranked second in oil derivatives exports, which reached 1,518.6 million barrels, accounting for 13.4 per cent of

the global total and an increase of 7.1 per cent compared to 2022.

According to GCC-Stat, the gas oil/diesel production recorded the highest rate among petroleum derivatives in 2023, with a quantity of 660.4 million barrels, followed by gasoline with 336.2 million barrels, then kerosene and jet fuel with 319.4 million barrels. Fuel oil, naphtha and petroleum gases recorded production of 263.1, 221.6 and 103.3 million barrels, respectively.

Gasoline consumption in the GCC in 2023 logged about 336.6 million barrels, while gas oil/diesel consumption reached 299.7 million barrels. The rest of the de-

rivatives witnessed varying quantities between 34.8 and 268.3 million barrels.

With regard to natural gas, the GCC's reserves in 2023 reached about 44.195 billion cu m, which represent 21.4 per cent of the total global reserves of natural gas, with an increase in reserves of 0.2 per cent compared to the figures recorded in 2022.

The GCC's natural gas exports in 2023 logged about 180.9 billion cu m, which accounted for 13.1 per cent of the total global natural gas exports, with an average annual growth rate in exports of 2.5 per cent during the period from 2014 to 2023.

KSA BOOSTS DIVERSIFICATION AMID GLOBAL ENERGY SHIFT

Saudi Arabia has aggressively expanded its energy sector, embracing oil, gas, renewables, and nuclear power to diversify and align with Vision 2030 goals amidst global challenges

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Prince Abdulaziz during the Saudi Media Forum in February 2025

By ABDULAZIZ KHATTAK

OVER the past year, Saudi Arabia has accelerated its transformation of the energy sector, aligning with its Vision 2030 objectives to diversify the economy and promote sustainability.

This period has seen significant developments in oil production, natural gas expansion, and a robust push toward renewable energy.

These efforts underscore the Kingdom's commitment to maintaining its position as a global energy leader while transitioning to a more sustainable and diversified energy portfolio.

In early 2024, the Kingdom decided to maintain its maximum sustainable capacity (MSC) at 12 million barrels per day (bpd), and not to continue increasing MSC to 13 bpd.

In the latter half of 2024, Saudi Arabia made strategic adjustments to its oil production policies.

Reports from September indicated that the Kingdom decided to abandon its previous target of maintaining oil prices at \$100 per barrel.

The decision reflects Saudi Arabia's adaptation to an era of lower oil prices and its intention to increase production, aiming to boost output by an additional one million barrels per day by December 2025.

This move is part of a broader strategy to adjust to global market conditions and sustain its influence in the oil sector.

However, this strategy has not been without challenges. By December 2024, Saudi Arabia faced difficulties in maintaining its traditional dominance over the global oil market.

Internal disagreements within the Opec+ alliance and increased competition from other oil-producing nations, such as Brazil and Canada, have complicated the Kingdom's efforts to control production levels and stabilise prices.

Additionally, the resurgence of US shale production, bolstered by favourable poli-

cies from the re-elected Trump administration, has intensified supply pressures.

Addressing these challenges, Saudi Arabia's Energy Minister, Prince Abdulaziz bin Salman, emphasised the Kingdom's readiness to adjust oil production as needed.

He stated: "We are ready to tweak upward, downward, whatever the market necessity dictates." This flexibility aims to ensure market stability and reflects the Kingdom's commitment to responding proactively to global energy dynamics.

NATURAL GAS EXPANSION

In line with its diversification goals, Saudi Arabia has intensified efforts to expand its natural gas sector.

A cornerstone of this initiative is the development of the Jafurah gas field, the Kingdom's largest non-associated gas field.

Production at Jafurah is slated to commence in the third quarter of 2025, with expectations to reach an output of 2 billion cubic feet per day by 2030.

This project is pivotal for reducing domestic reliance on oil for electricity generation and for supporting the growth of the petrochemical industry.

The increased natural gas production will also facilitate the Kingdom's plans to produce blue hydrogen, aligning with global shifts toward cleaner energy sources.

Amin Nasser, Saudi Aramco CEO, highlighted the significance of this development, and said: "Aramco is working with MidOcean, an LNG firm in which it took a 51 per cent stake, and looking at expanding our position globally in LNG." This strategic move not only aims to meet domestic energy needs but also positions Saudi Arabia as a competitive player in the global liquefied natural gas market.

RENEWABLE ENERGY ADVANCEMENTS

Saudi Arabia has made remarkable strides in bolstering its renewable energy

capacity. As of September 2024, the Kingdom had contracted 21 renewable energy projects, totaling 19 gigawatts (GW) in capacity.

Notably, the 700 megawatt (MW) Al-Rass solar plant became operational in August 2024, marking a significant milestone in the Kingdom's renewable energy journey.

These developments are part of a broader ambition to add 20 GW of renewable energy capacity annually, aiming to reach a total of 130 GW by 2030.

This aggressive expansion underscores Saudi Arabia's commitment to achieving a sustainable and diversified energy mix.

International collaborations have been instrumental in this renewable energy push. In December 2024, French energy giants EDF Renewables and TotalEnergies were awarded contracts to develop solar projects in Saudi Arabia.

EDF Renewables is set to build two solar parks with a combined capacity of 1.4 GW, while TotalEnergies will construct a 0.3 GW solar park in Rabigh Industrial City.

These projects are part of the Kingdom's fifth renewable tender round and reflect its strategy to partner with global leaders to accelerate the deployment of renewable energy infrastructure.

Saudi Arabia has been leveraging cutting-edge technologies to optimise energy production and improve efficiency.

AI and big data analytics are being employed to enhance oil exploration and refining processes.

Additionally, smart grid technologies are being integrated into the power sector to ensure better energy management and reduce wastage.

These advancements position Saudi Arabia at the forefront of energy innovation.

KINGDOM'S NUCLEAR AMBITIONS

The Kingdom has been exploring nuclear energy as part of its broader strategy to diversify its energy mix. Saudi Arabia plans

Continued on page 3

For investors seeking to be part of a dynamic and forward-thinking economy, Saudi Arabia offers a compelling proposition, one that promises growth, innovation, and unparalleled potential

KSA offers a 'blueprint' for global competitiveness

By ABDULAZIZ KHATTAK

IN an era defined by rapid technological advancements and shifting global economic dynamics, Saudi Arabia has emerged as a trailblazer in economic transformation and business excellence.

Under the ambitious Vision 2030 framework, the Kingdom has embarked on a journey to diversify its economy, reduce its reliance on oil, and position itself as a global hub for investment and innovation.

These thoughts were expressed by Dr Eiman Al-Mutairi, Vice Minister of Commerce, CEO of the National Competitiveness Center, and CEO of the Saudi Business Center, at the third summit of the Future Investment Initiative (FII) held in Miami, the US in February 2025.

She spoke about 'Saudi Arabia's competitiveness model: How is the Kingdom pioneering economic transformation and global business excellence?'

Saudi Arabia's Vision 2030, launched in 2016 under the leadership of His Royal Highness Crown Prince Mohammed bin Salman, serves as the blueprint for the Kingdom's economic transformation.

The vision aims to diversify the economy across 18 sectors, moving away from traditional oil and gas reliance.

"We wanted to wean the economy away from oil and gas into a diversified economy in different sectors," Dr Al-Mutairi explained.

This ambitious plan has set harsh targets and milestones, which have been met with scepticism by some in the global business community. However, the Kingdom has demonstrated remarkable progress, achieving over 900 reforms since 2016.

Central to this success is the creation of a unique reform model that brings together government agencies, the private sector, and international organisations.

Dr Al-Mutairi highlighted the importance of collaboration: "We have put all the government agencies in one place – actually, in one room – alongside the private sector. This process is critical to achieving our goals."

The National Competitiveness Center, under Dr Al-Mutairi's leadership, has established a system of weekly meetings involving 65 government entities and private sector representatives.

This collaborative approach has streamlined regulations, slashed bureaucratic hurdles, and created a business-friendly environment that attracts global investors.

EMPOWERING WOMEN & DRIVING SOCIAL CHANGE



Dr Eiman Al Mutairi speaking at the FII summit in Miami

One of the most striking examples of Saudi Arabia's reform efforts is its commitment to women's empowerment.

In 2019, the Kingdom was ranked at the bottom of the World Bank's Women, Business, and the Law report.

However, within a year, Saudi Arabia implemented sweeping changes to eliminate gender-based discrimination in laws and policies.

"We moved from a score of 25 out of 100 to 70 in one year," Dr Al-Mutairi noted. By 2021, the score had risen to 80, reflecting the Kingdom's rapid progress.

Despite these achievements, Dr Al-Mutairi acknowledged that changing global perceptions remains a challenge.

"Although we're doing all of this, the perception is still there. It will take time," she said. Nevertheless, Saudi Arabia has set ambitious targets for women's participation in the labour market, aiming for 40 per cent by 2030 – a goal that has already been surpassed, with the current rate standing at 36 per cent.

A ONE-STOP SHOP FOR GLOBAL INVESTORS

To further enhance its appeal to international investors, Saudi Arabia has introduced a groundbreaking One-Stop Shop initiative. This mega centre consolidates services from over 60 government entities under one roof, offering streamlined licensing and permit processes for businesses.

"We wanted to do 10 times better than other

countries," Dr Al-Mutairi stated. The initiative has been recognised by six international organisations, including the World Bank and the World Trade Organisation, as a new global benchmark for investor services.

The One-Stop Shop is just one example of Saudi Arabia's commitment to creating a seamless business environment.

The Kingdom has also reduced customs clearance times from two weeks to just two hours, with plans to further cut this to 30 minutes.

Additionally, the introduction of a premium residency program has attracted over 1,200 international investors and 2,600 healthcare professionals, ensuring that talent remains in the country to support its growing economy.

UNLOCKING OPPORTUNITIES IN KEY SECTORS

Saudi Arabia's economic transformation has unlocked vast opportunities across multiple sectors.

From sustainable energy and tourism to healthcare and technology, the Kingdom is positioning itself as a global leader in innovation and investment.

Dr Al-Mutairi highlighted several key areas of growth, including the \$450 billion expected in construction contracts by 2030 and the \$35 billion projected to be added to the non-oil GDP through healthcare and life sciences by 2040.

The Kingdom is also investing heavily in green energy, with plans to build a \$5 billion green hydrogen plant by 2026. Major events such as Expo

2030 and the FIFA World Cup 2034 are expected to drive significant infrastructure development, creating further opportunities for investors.

"The opportunities are endless," Dr Al-Mutairi emphasised, particularly in technology and AI, where Saudi Arabia aims to train a new generation of data analysts and AI experts.

A MODEL FOR THE WORLD

Saudi Arabia's competitiveness model has not only transformed its economy but also set a new standard for global business excellence.

The Kingdom's ability to achieve rapid and impactful reforms has earned it recognition as a knowledge hub by the World Bank. "Other countries are now benchmarking to Saudi Arabia," Dr Al-Mutairi proudly stated.

As the Kingdom continues to innovate and diversify, its commitment to collaboration, inclusivity, and sustainability serves as a powerful example for nations worldwide.

With Vision 2030 as its guiding star, Saudi Arabia is not only pioneering economic transformation but also shaping the future of global business.

In the words of Dr Al-Mutairi: "It's very easy to invest in Saudi Arabia. The opportunities are huge, and we are here to support you every step of the way."

For investors seeking to be part of a dynamic and forward-thinking economy, Saudi Arabia offers a compelling proposition – one that promises growth, innovation, and unparalleled potential.

KSA boosts diversification amid global energy shift

Continued from page 2

to construct two large nuclear reactors, with additional smaller modular reactors in development.

The government has been in discussions with the US, Russia, and China for technological collaboration. Nuclear energy is expected to play a critical role in meeting future electricity demands and reducing carbon emissions.

FOREIGN INVESTMENTS

Saudi Arabia has been actively investing in foreign energy projects to diversify its revenue streams and strengthen its influence in global

energy markets.

Saudi Aramco has ramped up investments in refining and petrochemical ventures in China and India, securing long-term demand for its crude oil.

Additionally, the Kingdom is pursuing joint ventures in liquefied natural gas (LNG) projects in the US and Australia, further expanding its energy portfolio.

These investments align with Saudi Arabia's strategy to remain a key player in both fossil fuels and emerging energy markets.

GLOBAL SHIFTS IN ENERGY SECTOR

With the re-election of Donald Trump, US

policies favouring domestic oil production are expected to increase global supply, potentially driving down prices.

Saudi Arabia will likely adjust its production strategy to stabilise the market, leveraging its vast reserves and production capacity to balance supply fluctuations.

Additionally, the Kingdom may strengthen its ties with key energy partners to counteract potential market disruptions.

Saudi Arabia has been deepening its energy ties with Russia and China.

The Kingdom continues to collaborate with Russia within the Opec+ framework to coordinate oil production levels.

Meanwhile, its strategic energy partnerships with China have expanded, with several joint ventures in refining, petrochemicals, and renewable energy projects. These relationships are crucial for Saudi Arabia's long-term energy security and market positioning.

Saudi Arabia remains a pivotal player in the global energy landscape. While its oil dominance faces challenges, the Kingdom is actively investing in gas, renewables, and nuclear energy to ensure long-term sustainability.

Through strategic investments, technological advancements, and international collaborations, Saudi Arabia is positioning itself for a balanced and diversified energy future.

The project is one of only three, including North Field in Qatar and Yamal LNG in Russia, to have undertaken more than one development phase simultaneously

Jafurah set to increase KSA gas production by 4bcfd

THE Jafurah Gas Field Development, the first phase of which began construction in the last quarter of 2022 and the second phase by the end of 2024, is considered of critical importance to Saudi Arabia to meet its growing domestic demand and the liquefied natural gas (LNG) export targets set by the Kingdom's Ministry of Energy.

It is unusual for a project of the magnitude of the Jafurah Gas Field Development to have several construction phases taking place simultaneously.

Only projects such as North Field in Qatar or Yamal LNG in Russia share this simultaneous construction in recent history.

Despite that Saudi Aramco and the Ministry of Energy promoted a progressive schedule to optimise the necessary investments and infrastructure required for the simultaneous construction of both phases.

They took into account that the first phase will be oriented towards the development of unconventional gas resources, while the second phase will have as its main objective the expansion and development of large-scale production.

The development of the two phases of the Jafurah Gas Field will result in a significant increase in Saudi Arabia's gas production from approximately 14 billion cubic feet



Several phases of the Jafurah Gas Field Development are being constructed simultaneously

(bcfd) in 2025 to more than 18 bcfd when the full infrastructure comes online in 2027, according to Saudi Aramco and the Saudi Ministry of Energy.

The Jafurah Gas Field Development project is considered of vital importance to Saudi Arabia, with the aim of meeting its domestic gas demand, while at the same time meeting the LNG export targets set by the Ministry of Energy.

Amin Nasser, President and CEO of Saudi Aramco, said the project will contribute \$23 billion annually to the country's gross domestic product (GDP).

Phase 1 of Jafurah is expected to produce more than 2.5 bcfd on start-up, rising to 5 bcfd by the end of the decade, coinciding with the start-up of the second phase.

In total, Jafurah is expected to generate more than 10 bcfd by 2030, helping Saudi Arabia consolidate its position as a world leader in natural gas, especially unconventional gas.

In addition, production from Jafurah will bring Saudi Arabia closer to its goal of reducing its dependence on oil for power generation and meeting the growing demand from intensive industries such as petrochemicals.

In doing so, the Kingdom seeks to support its energy transition goals by contributing to the reduction of CO2 emissions in the supply chain.

Saudi-Africa collaborations are expected to drive infrastructure development, enhance oil and gas production capacity and facilitate knowledge transfer between Saudi and African energy stakeholders

Kingdom expands energy investments in Africa

IN February 2025, Egypt's Minister of Petroleum and Mineral Resources, Karim Badawi, and Saudi Arabia's Minister of Energy, Prince Abdulaziz bin Salman Al Saud, signed an agreement to develop an executive plan for energy efficiency cooperation, strengthening bilateral ties in the energy sector and fostering sustainable development.

This follows another significant development in September, in which Egyptian Prime Minister Mostafa Madbouly secured a \$5 billion pledge from Saudi Arabia's Public Investment Fund (PIF), representing the "first phase" of a larger investment strategy.

As a leading global energy giant, Saudi Arabia has been actively investing in Africa's energy sector, aiming to expand its energy reserves, advance energy diplomacy and compete with other global superpowers.

This strategic push not only strengthens Saudi Arabia's influence in the region, but also paves the way for deeper economic and political ties with African nations.

To date, the lion's share of investment in Africa's energy sector has focused on clean energy advancements.

With total project costs reaching \$7 billion across the continent, Saudi developer ACWA Power stands as the leading private-sector investor in African renewable energy.

In October 2024, the company announced that its Redstone solar plant in South Africa was set to achieve its full 100 MW capacity, while its Kom Ombo solar PV plant in Egypt successfully reached its full capacity of 200 MW.

ACWA Power is also leading Project DAO, South Africa's largest hybrid renewable power plant, with an \$800 million investment. The project is



Karim Badawi meets Prince Abdulaziz (right)

expected to come online by 2026 and aligns with the Kingdom's broader Vision 2030 goals.

In addition to renewable energy, Saudi Arabia is diversifying its investments to secure critical minerals for clean energy technologies.

Also, in October 2024, Saudi Arabia's Manara Minerals, a joint venture between Ma'aden and the Public Investment Fund (PIF), entered advanced talks to acquire a minority stake in First Quantum Minerals' Zambian copper and nickel assets.

The potential investment, valued between \$1.5 billion and \$2 billion, underscores Saudi Arabia's strategy to secure critical minerals that

are vital for the global clean energy transition.

Turning to broader regional commitments, Saudi Arabia's financial support for Africa's energy infrastructure has grown.

In the same month, the Kingdom announced a major funding initiative, pledging at least \$41 billion for sub-Saharan African nations.

This includes \$1 billion for development, \$5 billion for startups, \$10 billion in financing from the Saudi Export-Import Bank and \$25 billion in private sector investments over the next decade.

Meanwhile, the Saudi Ministry of Energy has established the "Empowering Africa" initiative as part of its broader commitment to supporting

sustainable development across the continent.

In collaboration with the Ministries of Communications and Information Technology and Health, the initiative aims to deliver clean energy, connectivity, e-health and e-learning solutions to enhance lives and promote long-term growth in Africa.

Building upon the Clean Fuel Solutions for Cooking Program, it focuses on providing cleaner cooking solutions to vulnerable populations, aiming to reduce reliance on traditional biomass fuels and improve health outcomes for millions of households.

Prince Abdulaziz has emphasised energy as a fundamental human right and is spearheading efforts to improve access to clean cooking technologies across the continent.

Additionally, state-owned petroleum company Saudi Aramco is strengthening its partnerships with African nations to support energy investments and mobilisation.

These collaborations are expected to drive infrastructure development, enhance oil and gas production capacity and facilitate knowledge transfer between Saudi and African energy stakeholders, while aligning with broader energy security and sustainability goals.

In the multilateral arena, the African Energy Chamber is working with Saudi Arabia to support South Africa's G20 energy investments and mobilisation.

This partnership is set to facilitate greater financing and policy coordination, ensuring Africa's energy priorities are well-represented in global energy discussions.

As Saudi investments expand – alongside those of other G20 nations – their impact on Africa's energy landscape will only deepen.

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Packers Plus marks 25 years with new facility in Dammam

The state-of-the-art facility is poised to bolster regional energy solutions and foster sustainable development while contributing to the Kingdom's industrial and economic goals, Stuart Wilson and Kurt Keam tell **OGN**

PACKERS Plus, a global leader in completion solutions, marked a major milestone in its 25-year journey by inaugurating its cutting-edge manufacturing and service facility in Dammam, Saudi Arabia, on January 29, 2025.

This event not only celebrates a quarter-century of operational excellence and customer intimacy in the energy sector but also reaffirms the company's steadfast commitment to driving innovation and supporting local development within the Kingdom of Saudi Arabia.

The inauguration of the new facility represents a major leap in Packers Plus' vision for growth and its alignment with Saudi Arabia's Vision 2030 and Aramco's In-Kingdom Total Value Add (IKTVA) programme.

The state-of-the-art facility is poised to bolster regional energy solutions and foster sustainable development while contributing to the Kingdom's industrial and economic goals.

LEGACY OF INNOVATION AND EXCELLENCE

Over the past 25 years, Packers Plus has become synonymous with delivering high-quality, reliable completion solutions across the globe.

From pioneering technology to fostering strong customer relationships, the company's legacy is built on its ability to meet evolving industry challenges with cutting-edge products and services.

"This facility symbolises our continued dedication to excellence, not only in our products and services but also in our investment in people, technology, and the communities we serve," Stuart Wilson, CEO of Packers Plus, tells **OGN** energy magazine.

A CATALYST FOR LOCAL GROWTH

Packers Plus' new Saudi facility is not just about advanced infrastructure, it's about empowering local talent and strengthening its relationship with Saudi Aramco and other key partners.

The facility is designed to meet the highest industry standards, with API-certified manufacturing processes ensuring the quality and safety of every product that leaves the production line.

Aligned with the IKTVA programme, the facility prioritises local content, contributing to job creation, technology transfer, and the development of specialised skills in Saudi Arabia.

The company's ongoing investment in work-

Packers Plus' manufacturing and service facility building



Stuart Wilson



Kurt Keam

force training and development reflects its commitment to building local expertise and creating long-term value for the Kingdom's energy sector.

TECHNOLOGICAL ADVANCEMENTS DRIVING EXCELLENCE

The new facility incorporates the latest in energy-efficient manufacturing technology, enhancing Packers Plus' ability to deliver world-class completion solutions.

Cutting-edge automation systems, real-time quality control monitoring, and advanced product testing capabilities ensure that every

solution meets rigorous industry standards.

This technological advancement is a key component in maintaining the company's competitive edge and further solidifying its role as a leader in the energy sector.

PARTNERSHIPS DRIVING SUCCESS

Packers Plus' success in Saudi Arabia is also a testament to the strength of its partnerships.

Collaboration with key players such as Saudi Aramco and Midad Energy Services has been instrumental in the company's ability to deliver world-class solutions to the Kingdom.

The involvement of top executives from both

companies in the inauguration ceremony highlighted the shared vision of innovation and sustainability driving these partnerships forward.

Kurt Keam, Middle East Director of Packers Plus, emphasised the company's dedication to Saudi Arabia's long-term growth and alignment with national objectives, stating: "Our success is also a reflection of our alignment with the Kingdom's Vision 2030. Our investment in equipment, infrastructure, and people development is pivotal in ensuring our commitment to growth while contributing to the Kingdom's economic diversification and sustainability, as well as bringing Packers Plus solutions closer to our Eastern Hemisphere customers."

A spokesman for Midad Energy Services said: "Our collaboration is designed to combine the strengths of both organisations: Packers Plus, with its cutting-edge technologies and expertise in downhole completions, and Midad, with its deep understanding of the local market, regulatory environment, and operational landscape. Together, we've created a model that fosters innovation, ensures operational excellence, and adapts swiftly to the needs of Saudi Aramco."

BRIGHT FUTURE AHEAD

Looking ahead, Packers Plus remains committed to its role as a leader in the energy sector. The Dammam facility marks just the beginning of a new chapter in the company's growth trajectory.

As the energy industry evolves, so too will the company's solutions innovating to meet the changing needs of customers, ensuring the safety and sustainability of its operations, and continuing to drive progress across the Kingdom and beyond.

Packers Plus' 25-year journey is far from over, and with a renewed focus on innovation, collaboration, and local development, the company is set to shape the future of energy for the next quarter-century and beyond.

Packers Plus provides advanced products and services to the energy industry. With a focus on innovation, operational excellence, and customer intimacy, Packers Plus has been a trusted partner in the energy sector for over 25 years.

The company offers a full range of services, including completion equipment, engineering support, and field services, with a commitment to operational excellence and sustainability.



The Packers Plus team

Multi-Frequency Technology compensates errors caused in Coriolis mass flowmeters by bubble and resonator effects in gas-liquid mixtures, ensuring precise density and flow measurements, Rodrigo Quintero Bejarano tells **OGN**

Innovative MFT enhances flowmeter accuracy

CORIO LIS mass flowmeters are widely accepted and used in various industries because of their high reliability and accuracy for density and mass flow rate measurements.

These meters can achieve an accuracy of $\pm 0.1\%$ o.r. or even $\pm 0.05\%$ o.r. for mass flow rate, while density measurements can reach $\pm 0.1 \text{ kg/m}^3$ under reference conditions by some manufacturers.

ADVANTAGES OF CORIO LIS MASS FLOWMETERS

The Coriolis measuring principle offers a distinct advantage over other meter types as it directly measures the true mass flow rate instead of volumetric flow rates (Figure 1). Most other flowmeters measure flow velocity, which requires further calculations to determine mass flow. As explained by Rodrigo Quintero Bejarano, Advanced Expert Industry Manager Oil & Gas at Endress+Hauser, this principle makes Coriolis meters highly effective in various applications.

These advantages stem from the measurement principle based on the Coriolis effect, which reveals the fact that a Coriolis force is generated when an object on a rotating body moves away or towards the centre of rotation.

This force is related to the inertia of the object and has a direction perpendicular to both the velocity of the object and the axis of the rotation body.



Figure 1 ... inside view of a Coriolis mass flowmeter

Challenges: In practice, Coriolis flowmeters are usually only used for single-phase fluids, that is, liquids or gases, as it is known that their accuracy can be affected by the existence of entrained gas in a liquid flow.

Extensive research has identified, among others, two primary sources of error; the bubble effect and the resonator effect (also known as the compressibility effect).

UNDERSTANDING THE BUBBLE EFFECT

Bubble effect theory was developed and later extended to viscous bubble theory by Hemp et al. The essential idea for the root cause of the bubble effect is that a gas bubble in the measuring tube of a Coriolis mass flowmeter does not strictly follow the oscillation of the surrounding liquid with the same amplitude if the liquid cannot "hold" the bubble well.

This is a result of the density difference between the gas (ρ_g) and the liquid (ρ_l), which generates a relative motion between the bubble and the liquid.

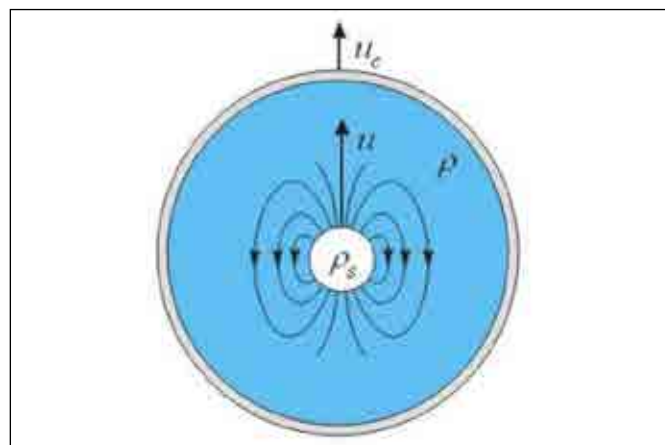


Figure 2 ... motion of a bubble in a measuring tube filled with liquid

A secondary flow (Figure 2) around the bubble is induced by this relative motion and causes a different inertial effect from the

one that Coriolis mass flowmeter utilises to sense mass flow rate.

RESONATOR EFFECT and its impact

Compared with free bubbles, suspended bubbles are much more difficult to eliminate from the process.

Although causing no bubble effect error, they still introduce a resonator effect as a result of the significantly increased compressibility, giving rise to density and mass flow measurement errors.

Studies show that suspended bubbles pose the greatest challenge to Coriolis flowmeters used in the field.

Even a small gas fraction dramatically reduces the speed of sound in a liquid, lowering the resonance frequency of the fluid mixture in the tube. If this frequency approaches the driving frequency of the oscillating tube, it causes a resonator effect (driven out of resonance) that cannot be neglected during measurement.

MULTI-FREQUENCY TECHNOLOGY (MFT)

To compensate the measurement errors induced by the resonator effect, MFT has been researched and developed based on the vibrational properties of the Coriolis sensor and advanced further with respect to the Two-Mode Compensation proposed in Figure 3.

When a Coriolis meter measures a liquid with suspended bubbles, the measured density error is defined as

$$E_{\rho}^{\text{res}} = \frac{\rho_a - \rho}{\rho},$$

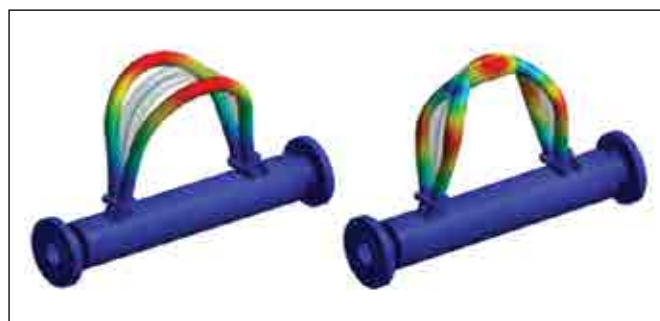


Figure 3 ... mode 1

mode 2

In the advanced sensor design (Promass Q), special consideration was given to ensure that the oscillation of the measuring tube is not only well balanced for the basic working mode, but also for a higher third mode of the measuring tube.

A good balance for tube oscillation is critical for the design of a Coriolis meter to ensure that the tube vibration is isolated from the external process connection.

Then, a reliable density measurement can also be realised with the third mode, which provides an independent density reading ρ_{a3} from that of the first mode and therefore can give additional information about the resonance properties of the fluid.

The reason for relying on the third mode instead of the second mode of the tube lies in the fact that the second tube mode is anti-symmetric with respect to the driver, so that this mode cannot be excited by the existing driver.

In addition to mode shape, the third mode differs from the basic working mode by having a much higher resonance frequency, typically by a factor of 5-6.

It should be noted that the two tube modes can be driven simultaneously with the same driver.

The mechanical motions and the corresponding signals of the two modes are then superimposed.

With the modern electronics developed for this purpose, the combined signal can be simultaneously processed and two independent vibrational properties of the two modes can be obtained accordingly.

APPLICATION OF MFT

There is numerous entrained gas applications to which MFT can be applied, such as heavy oils that can hold bubbles because of high viscosity, dairy products that contain micro-bubbles due to product nature, etc.

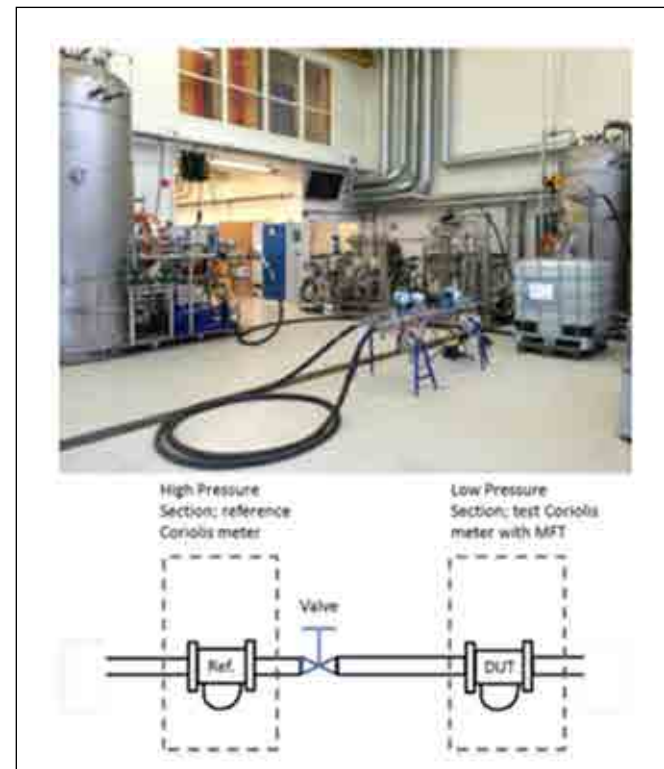


Figure 4 ... test setup

Targeted for one interesting type of application, Promass Q with MFT was tested with outgassing from produced water in Porsgrunn, Norway.

The test setup is shown in Figure 4. A reference Coriolis meter was installed in the high-pressure section, where the production water saturated with nitrogen was single phase, which the reference Coriolis meter measured with an uncertainty of ± 0.1 per cent.

The test Coriolis meter with MFT was installed in the low-pressure section, where outgassing was created to generate a gas-liquid two phase flow (Figure 5).

As can be seen there, a homogeneous micro-bubble flow regime was produced by the outgassing.



Figure 5 ... outgassing

CONCLUSION

The bubble and resonator effects are the primary sources of measurement errors in Coriolis mass flowmeters under entrained gas conditions. While process optimization methods such as gas eliminators or high turbulence can help suppress free bubbles, suspended bubbles remain a persistent challenge.

Multi Frequency Technology offers an innovative solution by utilizing multiple oscillation modes to compensate for resonator effects, significantly enhancing accuracy in density and mass flow measurements.

Additionally, MFT enables the measurement of speed of sound in entrained gas fluids, which, when combined with pressure readings, allows for Gas Volume Fraction (GVF) calculation in three-phase flows.

By integrating MFT, industries can achieve more reliable and precise flow measurements, even in the presence of entrained gas, thus unlocking new possibilities for process optimization and efficiency.

Accelerating digitalisation and drilling automation in Mideast

Nabors Industries continues to lead in transforming drilling operations through automation and digitalisation with its SmartROS® rig automation system and RigCLOUD® digital platform

NABORS' SmartROS® rig automation system and RigCLOUD® digital platform are revolutionising the industry by providing real-time data insights and making automation accessible and deployable on any AC rig extending their benefits beyond Nabors' own rig fleet.

These technologies are designed to enhance operational efficiency, minimise downtime, and ensure precise drilling performance, consistently reducing or eliminating drilling operations zero non-productive time (NPT).

Nabors' RigCLOUD® optimisation platform has been instrumental in digitalising operations across the Eastern Hemisphere, providing real-time data and drilling analytics enabling operators to make more informed decisions.

Uniquely designed to host drilling and analytics software at the rig site, on the web, and on mobile devices, the RigCLOUD® automation platform ensures seamless acquisition, storage, management, visualisation, and delivery of drilling data, including efficient transmission from the Wellsite Information Transfer Standard Markup Language (WITSML) stores for enhanced interoperability and data accessibility.

Its reliable system enables efficient communication across applications to support digital operations while ensuring secure access to data and services for integration with other digital systems and partner applications.

Deployed on over 40 rigs in Saudi Arabia and 27 rigs across the Middle East, Africa, Far East, Russia, and Kazakhstan, including non-Nabors rigs, the RigCLOUD® platform has proven its adaptability and impact by enhancing efficiency and enabling data-driven decision-making across diverse operations.

Further strengthening its reliability, the platform is supported by RigLINE® 24/7, providing continuous assistance and expert guidance to optimise performance and ensure seamless operations.

Meanwhile, the SmartROS® rig operating system stands out for its versatility and scalability.

Designed for drillers by drillers, this modular, capital-light system enables customisable purpose-fit drilling automation solutions while ensuring consistent, repeatable performance.

This is accomplished by replicating best-in-class workflows, driving consistency, and maximising performance across the rig fleet.

Currently, Nabors' SmartROS® operating system is installed on over ten rigs in the region, delivering successful results and elevating operations for customers in Iraq, Oman,



Made in KSA ... Canrig's automated power catwalks are revolutionising drilling operations by enhancing safety, efficiency, and performance

Saudi Arabia, and Papua New Guinea.

Globally, the SmartROS® system has supported over 120 customers in drilling more than 5,000 wells across 150 rigs, utilising its SmartDRILL®, SmartSLIDE®, and SmartNAV® advanced drilling automation solutions.

In Oman and Iraq, Nabors' SmartROS® system was implemented on 8 out of 14 wells, achieving a 43 per cent reduction in weight-to-weight time in the vertical section and 34 per cent in the lateral section when compared to the offset, ensuring consistency across diverse rigs and control systems.

In Saudi Arabia, the SmartROS® automation platform was deployed across three rigs to drill 14 wells, achieving substantial time savings in weight-to-slip and slip-to-weight transitions, the key components of automation efficiency.

The results surpassed the operator's benchmark, with time reductions of 29 per cent for the 22-inch hole section, 27 per cent for the 16-inch hole section, and 33 per cent for the 12-inch hole section, demonstrating the platform's ability to enhance drilling performance and efficiency.

These results underscore the efficiency, reliability, and scalability of Nabors' automation solutions, driving safer and more cost-effective drilling operations.

TRANSFORMING DRILLING WITH AUTOMATION INTELLIGENCE PLATFORM

Nabors' new Automation Intelligence portfolio is redefining drilling optimisation by enhancing efficiency, reducing costs, and improving decision-making.

Early deployments for a major operator in Saudi Arabia have already demonstrated impressive results, with savings of over 20 hours on two wells.

By analysing BHA health, optimising ROP and integrating seamlessly with auto-drillers, Nabors Automation Intelligence platform empowers operators to make real-time, data-driven decisions, expediting operations, improves performance, and generates significant cost savings across multiple wells, reinforcing Nabors' commitment to advancing drilling automation.

ILLUMINATING NIGHTTIME OPERATIONS WHILE LOWERING CARBON EMISSIONS

Canrig's ILLUMIC™ Lighting System has delivered significant operational benefits across the Middle East and Asia.

Recent performance results from 19 rigs in Saudi Arabia alone have led to savings of over 78,000 gallons of fuel, more than 900,000 kWh of energy, and a reduction of over 800 metric tons of carbon emissions.

These savings not only contribute to cost efficiency but also improved nighttime operations, enhanced safety and operational efficiency contributing to more sustainable drilling practices.

STRENGTHENING LOCAL MANUFACTURING AND REPAIR CAPABILITIES

Canrig's Made in KSA automated power catwalks are revolutionising drilling operations by enhancing safety, efficiency, and performance.

Built entirely in the Kingdom, these advanced catwalks streamline casing delivery to the drill floor, eliminating manual handling and reducing the need for additional services at the well-site.

Canrig's KSA manufacturing facility continues to drive innovation and local content development, having already delivered over eight PC4000 Catwalks and more than six PC8000 Catwalks, with additional units scheduled for delivery this year.

As an original equipment manufacturer (OEM), Canrig repairs, recertifies and upgrades a broad range of equipment types, including those produced by third party.

By driving automation, digitalisation, and sustainability, Nabors continues to lead the transformation of drilling operations in the Middle East and beyond.



Nabors' KSA team



Nabors' new Automation Intelligence portfolio is redefining drilling optimisation



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By layering security solutions as part of a holistic approach, companies can safeguard their facilities in a reliable and cost-effective manner, while leaving the door open to future growth and expansion, Andrea Monteleone tells **OGN**

Unpacking intrusion protection for O&G operators in region



Thermal cameras and radar can provide multi-layered security for oil and gas infrastructure

By ABDULAZIZ KHATTAK

FOR the Middle East, protecting oil and gas infrastructure and operations is an economic necessity. As world demand for energy continues to rise, the market in the region is expected to be worth over \$1.4 trillion by 2030.

Countries like the UAE and Oman are expanding their gas processing and export capabilities amid growing investment in cross-border pipeline projects, while GDP growth in the Middle East and North Africa (MENA) is expected to accelerate in 2025 with the help of higher oil production in the Gulf.

Operators in the region have to deal with many security considerations and one of the biggest is physical security, specifically perimeter protection and intruder-related events.

"For many, the best approach is a multi-layered one, connecting different surveillance solutions to enable beyond solely detecting intruders. In other words, operators need to look beyond the initial real-time alerts associated with detection and implement a broader strategy around preventing intruder-related damage or theft," Andrea Monteleone, Segment Development Manager, Critical Infrastructure at Axis Communications, tells **OGN** energy magazine.

START THINKING ON THE EDGE

A camera is no longer just a 'recording device'. Today, sophisticated network cameras have powerful processing capabilities that let them act as sensors, gathering metadata and acting as servers on the edge to communicate, control, and trigger other devices on the network via open communications protocols.

This also enables oil and gas operators to scale their security systems and integrate open surveillance solutions into their infrastructure.

Thinking of cameras as edge devices acting as powerful, real-time sensors is the first step to-



Andrea Monteleone

wards building better, more optimised surveillance systems, and is the starting point for a multi-layered approach for effective intrusion protection that helps secure people, assets, and facilities in what are highly critical industries.

WORK FROM THE OUTSIDE IN

Intrusion protection starts at the outer perimeter where a potential intruder is detected and verified along the fence line or 'buffer zone'.

Radar devices pointing outwards from the fence line spot a potential threat and send operators an alert long before the intruder reaches the actual perimeter.

Reinforcing this, thermal cameras with intelligent analytics can identify and classify whether a moving object is a potential intruder and not some other object, like an animal. Thermal cameras also offer detection accuracy and reliability irrespective of weather conditions.

Once an intruder is detected, operations can either raise the alarm immediately or configure their system to raise it should the intruder enter a previously classified zone.

The latter option reduces the risk of false alarms while enabling the system to detect the intruder early and only activate further escalation procedures if necessary.

The next step is verification where visual cameras with tracking analytics respond to the alarm being triggered and verify it by showing a visual image of the intruder, monitoring them wherever they go.

Operators can then deploy deterrents such as audio speakers or LED reflectors that can light up an area and warn the intruder to cease moving, direct security personnel to their location, and discourage potential theft or property damage.

Not every security system is the same, as each site has its own physical and operational circumstances, but the connected implementation of these security solutions enables operators to enforce a standard procedure and adhere to protocols for maximum impact and efficiency.

PROTECT THE CORE OF YOUR OPERATIONS

The third layer of intrusion protection is access control, as in controlling access to site buildings and other facilities.

Devices such as door stations and intercoms play a key role in this layer, ensuring that only authorised personnel and visitors can access entrances, exits, and specific buildings or rooms.

Vehicle access control also forms a part of this. Using cameras equipped with licence plate recognition and analytics, operators can admit or stop vehicles before they enter or leave the site, while also communicating with the users and security personnel via intercom

systems. This is also essential for sites that are automated and not staffed by many people.

Looking more broadly, intrusion protection systems should not have a single point of failure. Building an edge-based, decentralised system that doesn't depend on one device is key.

Edge-based systems can also help mitigate risks, particularly when comprised of physical devices that offer a variety of built-in cybersecurity features to counter cyberattacks and prevent unauthorised system access.

Operators can also create clusters of security devices that run independently of a central server. That way, even if one device fails, the rest are not affected.

MAXIMUM PROTECTION, MINIMAL COST

When building an edge-based, decentralised intrusion protection system, oil and gas enterprises have an opportunity to substantially reduce security costs.

By operating at the edge, enterprises can reduce their bandwidth requirements and the number of video streams that need to be sent to central servers, eliminating the need for extra servers, racks, and passive network equipment.

Deploying thermal cameras also eliminates the need for more visual cameras while still covering the same amount of area, reducing installation and cabling costs and power consumption.

All this cost optimisation speaks to the depth of the approach that the industry needs to take to security.

By layering security solutions as part of a holistic, connected protection system, enterprises can safeguard their sites and facilities in a comprehensive, reliable, and cost-effective manner, while leaving the door open to future growth and expansion.

Axis intelligent surveillance solutions offer an ideal way to protect upstream, midstream, and downstream oil and gas activities.

STATS consolidates growth in pipeline isolation market

The company is now the first Saudi-dedicated hot tap, double-block and bleed isolation specialist, and holds the most extensive inventory of large-diameter pipeline isolation equipment in-country

STATS Group (STATS), a leading pipeline engineering specialist, has announced a significant expansion of its operations in the Kingdom of Saudi Arabia, marking a strategic milestone in the company's global growth.

The company has opened a new 2,500 sq m base in Dammam in the country's Eastern Province, and the newly created Saudi operating company STATS Limited Company for Oil Services has been awarded approved vendor status by one of the Kingdom's leading energy operators.

With more than \$4 million in assets and equipment assigned to Dammam, STATS is now the first Saudi-dedicated hot tap and double-block and bleed isolation specialist and holds the most extensive inventory of large-diameter pipeline isolation equipment in-country.

A significant investment in the new service hub included provision for offices, crane facilities, testing bays and equipment storage to the global STATS ISO standard.

The company also hosts its patented Tecno Plug® and BISEP® double block isolation tools in sizes up to 56 inches, alongside hot tapping machines of various sizes up to 60 inches and inline weld testing equipment.

Aligning with Saudi Arabia's Vision 2030 programme, STATS is also committed to building a predominately Saudi workforce and has already employed nationals in business development, technical and engineering roles.

STATS Group's Vice-President for the Middle East, Mark Gault, said: "We have a long standing relationship with the Kingdom's leading energy sector companies and setting up a local entity and opening a base is the natural next step in growing our market presence."

"This investment not only strengthens our infrastructure and ability to more rapidly respond to clients' needs, but it underlines our commitment to local innovation and to creating employment and skills learning opportunities for Saudi nationals."

"By opening our new service hub, we can now host the largest inventory of hot tapping and isolation equipment in the region, and we have a unique qualification as the only approved contractor providing subsea hot tapping services for a national operator."

The Middle East is one of STATS' largest markets and the latest investment in Saudi Arabia mirrors the company's policy of establishing a strong local presence and operational infrastructure in Abu Dhabi, Oman and Qatar.

The company saw a 66-per cent increase in staff in the last year. It now has approximately 160 staff based in the region.

Gault added: "We firmly believe in having our own people on



From left, Mohammed Alfaqih, STATS Group Business Development Engineer, Ajith Pushparaajan, Ahzam Akhlaq, Angus Bowie, Mark Gault, Stephen Rawlinson, CEO, and Joe Fraser

the ground in strategic markets and with our best-in-class technologies this is now paying off with engagement with high profile EPCs and end-clients at FEED stage, meaning STATS' contribution to major projects is start-to-finish."

Headquartered near Aberdeen, Scotland, STATS, a wholly owned subsidiary of Mitsui and Co, provides specialist engineering services for the maintenance, integrity and repair of oil, gas and petrochemical installations and infrastructure.

It is a leading provider of pressurised pipeline isolation, hot tapping and plugging services to the global energy industry.

STATS has gained an excellent reputation for providing a responsive, client-centred approach combined with expertise and innovative products which enhance safety and environmental performance, reduce system or plant downtime, improve asset performance, and support decommissioning and abandonment.

The group has global offices in Edmonton, Canada; Houston, the US; the UAE, Saudi Arabia, Oman and Qatar in the Middle East; Kuala Lumpur, Malaysia; and Perth, Australia, employing 450 people.



Joe Fraser, STATS Group Operations Manager ME, (left) discusses a 48-inch BISEP tool with a client

Brady's new Dammam facility to localise labels production

By ABDULAZIZ KHATTAK

BRADY Corporation HAS opened a new production facility in Dammam, Saudi Arabia. The facility will produce high performance pipe markers, signs and identification labels for Middle East construction contractors, oil, petrochemical, food and beverage companies.

Commenting on the new facility, Christophe Nelissen, Middle-East and Africa Senior Regional Manager at Brady Corporation, says: "Our new facility in Dammam will manufacture Brady's well known quality identification and safety solutions, now made in Saudi. Leveraging Brady's worldwide identification technology and knowhow, production in Dammam is now ready to start manufacturing at worldwide quality levels, using state-of-the-art print engines."

Brady will print pipe markers, signs and other safety identification solutions designed for reliability in challenging environmental conditions, both in- and outdoor.

The facility will be able to print on a range of materials and identification solution constructions, all designed to provide maximum value to customers.

Nelissen says reliability is key. "Even after exposure to oil, grease, chemicals, high heat, humidity or UV-radiation our identification solutions must stay attached and remain legible. We take great pride in being able to deliver our customers an identification solution that does not need frequent replacement," he adds.

Brady's new Dammam facility also hosts a large warehouse to provide next day deliveries anywhere in the Middle East.



Brady's new production facility in Dammam

Orders that need additional production, including larger volumes and customised pipe markers, signs and labels, can be produced and delivered within 48 hours.

"Thanks to our new local production capability and storage capacity, Brady will be able to respond quickly to emerging facility identification challenges anywhere in the Middle East," says Nelissen.

With production and storage in Dammam, Brady will be able



UV-resistant signs, labels, tags and holders produced locally

to reduce shipping costs, optimise labour expenses and strongly reduce delivery times.

"Without surrendering an inch in quality, we will be able to deliver reliable identification solutions to Middle East companies at optimised prices. At the same time, Brady's new facility will generate additional economy and labour in neighbouring communities as we strengthen and increase our service levels to Middle East companies," Nelissen concludes.

Cloud-based acoustic monitoring for optimised well operations

Interwell helps operators optimise coiled tubing rig-up with real-time pressure monitoring via cloud-enabled Iconic iDT, cutting rig time and reducing costs while enhancing safety and efficiency



Interwell's iDT is a state-of-the-art acoustic downhole monitoring system



Screenshot from Interwell's cloud-based monitoring platform

A major operator in Qatar required real-time pressure monitoring below the backpressure valve (BPV) in a closed well with no perforations during the rig-up of coiled tubing.

To optimise rig time and reduce costs, precise, live data was essential to avoid unnecessary rigging of pressure control equipment (PCE).

Traditional methods were not sufficient to meet the demands of the operation, and the client sought a solution that could provide accurate, real-time pressure insights through a cloud-enabled platform, enabling remote monitoring and seamless integration into their operational workflow without disrupting timelines or budget constraints.

SOLUTION

To address this challenge, Interwell deployed the Iconic Digital Transponder (iDT), integrated with a secure cloud-based monitoring platform, delivering an innovative and efficient solution tailored to the client's needs.

The key elements of the solution included:

- **Real-time pressure data:** The iDT provided live, accurate readings from below the BPV, ensuring precise monitoring during coiled tubing rig-up.
- **Cloud-enabled accessibility:** A secure cloud platform transmitted data directly to engineers in town, enabling remote monitoring and eliminating the need for on-site presence.
- **Operational optimisation:** The ability to verify pressure conditions remotely allowed the

operation to proceed without deploying PCE, significantly reducing rig time and complexity.

• **Collaborative decision-making:** Remote access facilitated seamless coordination between field teams and technical experts, enabling faster and better-informed decisions.

This cutting-edge solution combined advanced acoustic technology with cloud-enabled accessibility to redefine well monitoring in the region and solidifying Interwell's position as a leader in digital technologies.

VALUE CREATED

The implementation of the Iconic iDT, combined with a cloud-based monitoring platform, brought significant value to the operation.

By eliminating the need for PCE deployment,

the operation saved approximately 30 per cent in rig time, which allowed for faster completion schedules.

This also translated into cost efficiency, with the client achieving a 15 per cent reduction in overall expenses compared to traditional monitoring methods.

Additionally, the cloud-enabled solution enhanced safety by significantly reducing on-site personnel requirements, thereby minimising exposure to hazardous environments.

Finally, this deployment marked the first implementation of cloud-based acoustic monitoring in the Middle East, reinforcing the operator's reputation for embracing innovation and positioning Interwell as a technological pioneer in the industry.

Hilal Technology addressing region's sustainability needs

The company is committed to helping organisations in the GCC region achieve their sustainability goals, and it believes that technology, combined with expertise and a strategic approach, is key to driving meaningful change

HILAL Technology, a Silver Partner of IBM, is uniquely positioned to address the growing sustainability requirements across the GCC region, specifically in Bahrain, Saudi Arabia, and the UAE.

With increasing focus on environmental, social, and governance (ESG) factors, the company offers comprehensive solutions and expertise to help organisations navigate the complexities of sustainability reporting and implementation.

SUSTAINABILITY: A REGIONAL IMPERATIVE

Saudi Arabia is undergoing a significant transformation, with the Kingdom's Vision 2030 emphasising the crucial role of sustainability in long-term economic growth and social well-being.

As highlighted in recent reports, ESG integration is no longer optional but a core component of investment decisions in the Saudi market, driving demand for green finance, social impact initiatives, and enhanced corporate governance.

This aligns with the ambitious goals set by Vision 2030 for environmental sustainability, social development, and economic diversification.

HILAL TECHNOLOGY'S CONTRIBUTION

Hilal Technology understands the unique challenges and opportunities presented by this evolving landscape.

As an IBM Silver Partner, the company leverages cutting-



edge technology and industry best practices to provide tailored solutions that address specific sustainability needs. These include:

- **ESG data capture and reporting:** Hilal Technology offers a robust platform for capturing, managing, and reporting ESG data, utilising globally recognised frameworks like GRI and others. This enables organisations to accurately track their progress, identify areas for improvement, and demonstrate their commitment to transparency and accountability.
- **Sustainability consulting:** Its team of experts provides guidance and support to organisations seeking to develop and implement effective sustainability strategies. They can help businesses align their operations with national visions and global best practices, ensuring long-term value creation.
- **Technology-driven solutions:** Leveraging the power of IBM technologies, Hilal Technology delivers innovative solutions for areas such as resource management, waste reduction, and carbon footprint tracking. This empowers organisations to optimise their operations and minimise their environmental impact.

Hilal Technology is actively engaged in supporting sustainability initiatives across the GCC region, with a particular focus on Bahrain, Saudi Arabia, and the UAE.

The company is committed to helping organisations in the GCC region achieve their sustainability goals, and it believes that technology, combined with expertise and a strategic approach, is key to driving meaningful change.

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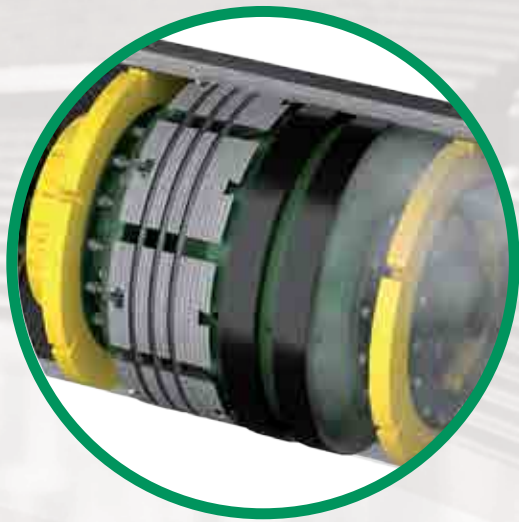


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Liberating your data: Why an industrial data fabric is key

Whether it's to optimise processes, increase efficiency, reduce emissions or design new processes, data is a key resource for asset-intensive companies for the foreseeable future, Craig Smith tells **OGN**

FOR almost as long as there has been industry, there has been data.

Beginning with handwritten paper records of readings collected from different equipment or records of production output, by the 1990s and the advent of digitalisation, data was collected automatically by suites of sensors capable of recording dozens of measurements multiple times per second.

Today, data is an invaluable resource. Companies can tap for insights on everything from the condition of their physical assets, to how to increase efficiency, to monitoring and analysing emissions.

"As companies work to extract the most value from that resource, many are now turning to what's been dubbed an industrial data fabric, allowing companies to collect data from across their operations and – perhaps most importantly – contextualise and analyse it for actionable insights," says Craig Smith, General Manager and Senior Strategic Planning Director, KSA, Aspen Technology.

For companies with the forward-looking vision to implement it, a data fabric can deliver a deep and rich data stream that can help drive continuous improvement across operations, from optimising processes and increasing efficiency to fostering innovation and enabling industrial AI, all of which can help drive increased profitability.

To enable more companies to realise those benefits, Saudi Arabia is taking a leading role in developing industrial AI technology across the region.

In late 2024, the Kingdom announced plans to invest up to \$100 billion in its AI initiative, Project Transcendence, to support new data centres, startups and other infrastructure.

As the world and our region work to transition to a new energy system, such investments will be crucial for helping companies understand the role data will play in helping implement sustainability measures and meet net-zero targets.

CONTEXT IS KEY

As the energy transition progresses, asset-intensive companies are facing increasingly complex technological and environmental challenges, challenges that data – by itself – won't be able to overcome.

To innovate going forward, companies will need a more holistic understanding of the data they have and the data they collect.

In short, context is key and a data fabric makes it easier than ever to deliver it.

While it's often referred to as a data management framework, that only captures part of the data fabric picture.

At its core, a data fabric simplifies the process of collecting, aggregating and contextualising



Craig Smith

data from across the enterprise.

Beyond that, a data fabric allows companies to create a virtual layer to house that data and give employees access to the data they need for everything from analysis and decision-making to the construction of new industrial AI models.

That virtual layer, essentially a 'single source of truth' for data across a company's operations is particularly critical, because the sheer volume of data means many companies often don't fully know what data they have.

Studies have shown that the average company collects data from as many as 400 different sources, with one in five companies monitoring 1,000 or more sources.

Worldwide, estimates from the World Economic Forum suggest that industry generated as much as 130 zettabytes of data in 2023.

To put that in perspective, if the average iPhone has 128GB of storage, 130 zettabytes is equivalent to more than 1.15 trillion iPhones.

Despite collecting such vast amounts of data, relatively little is actually used to generate business intelligence.

According to a Forrester Research study, just 12 per cent of the data companies have is used for analysis, and less than 30 per cent of companies say they can translate the data into action.

One reason why can be traced back to the fact that data is often highly siloed, collected and stored across different locations, in different formats and described or tagged in different ways, making it difficult to coordinate how it is used.

To improve companies' ability to take advantage of their data, AspenTech has opened its new regional HQ, complete with a dedicated training facility to support competency development among customers in the region.



AspenTech's new regional HQ in Al-Khobar houses a dedicated training facility

Located in Dhahran near Aramco and King Fahd University of Petroleum and Minerals (KFUPM), the new facility comes just two years after AspenTech signed a multi-year agreement to provide technical training and competency development programmes on process and asset optimisation technologies and operational analytics to students and staff in the university's Chemical Engineering Department.

SUPERCHARGE INDUSTRIAL AI

There should be no doubt that data and industrial AI are inextricably linked. Without data, AI models could not be trained, would be unable to identify patterns, make predictions or adapt to new situations.

Around the world, asset-intensive companies are today already using data to develop AI models that can be applied to a host of questions, from monitoring and analysing emissions to locate areas for improvement, to increasing energy efficiency, to optimising the integration of renewable energy resources into the grid.

For companies hoping to truly supercharge their industrial AI programmes and create more meaningful, sustainable AI models, however, an industrial data fabric is critical.

For decades, the adage 'garbage in, garbage out' has served as a warning about the risk of building AI models using the wrong or incomplete data.

By making it easier to access data and find the information they need, a data fabric can help simplify the process of designing those models and even help engineers design better ones.

By eliminating the chances of a model getting bogged down searching through a large amount of data to find the right information, a data fab-

ric can theoretically help create models that can be trained and can operate faster than others.

Those improved models can then be applied to complex problems which might otherwise be difficult to model if engineers were uncertain about the quality and accuracy of their data.

As industrial AI use continues to grow, so too will the value of data, and the security challenges that surround it.

With data collected into a single point of truth, companies only need to secure a single resource rather than data that is potentially held in different locations around the world. In addition, security threats can be quickly patched as they arise, with updates propagating through the fabric automatically.

ADAPT TO CHANGE

As the world works to remake global energy systems for a low- or no-carbon future, in the years to come a changing business environment isn't just a possibility, but a certainty.

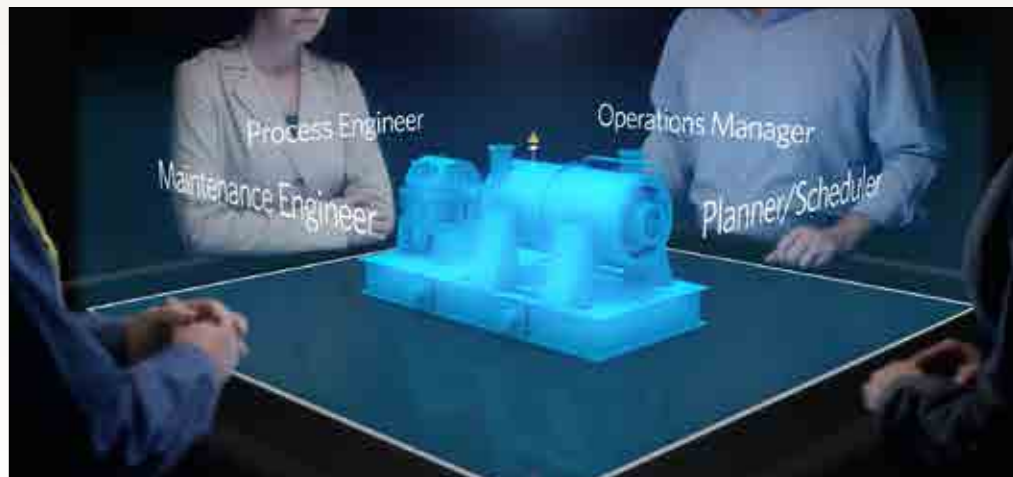
Adapting to those changes will be a challenge for companies around the globe, and those in the Middle East will be no different.

Fortunately, the region is already working to ensure companies have the vision and skills needed to properly collect and analyse their data to understand, prepare for and overcome those challenges.

Whether it's helping to optimise existing processes, identifying ways to increase efficiency, pinpointing opportunities to reduce emissions or informing the design of new processes and innovations, data is – and will continue to be – a key resource for asset-intensive companies for the foreseeable future. The challenge ahead will be in how to use it.



In 2023, the global industry generated as much as 130 zettabytes of data



Companies are collecting data from across their operations and contextualising and analysing it for actionable insights

100+

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YBA Kanoo drives regional innovation & localisation

The group showcased new equipment partnerships and innovations during an open day, while separately signed an agreement to advance local manufacturing efforts in alignment with Vision 2030 and sustainability goals

By ABDULAZIZ KHATTAK

YUSUF Bin Ahmed Kanoo Group has made key regional advancements in the areas of innovation and localisation. Group company Kanoo Machinery's Open Day showcased new equipment partnerships, while Kanoo Energy focused on localising manufacturing through an agreement with DOPAK.

In February, Kanoo Machinery, a leading provider of industrial machinery and solutions in the region, showcased its state-of-the-art machines and equipment from its global partners and principals, during an Open Day at its facility in Jeddah.

Attended by prominent industry leaders, business partners, and customers, the event featured live displays and demonstrations of newly launched equipment, including the Grove TMC Crane, as well as handover ceremonies for recently acquired machines.

Clients had the opportunity to explore advanced solutions designed to improve and enhance operational efficiency across industries.

A key highlight of the event was the signing of a strategic agreement between Kanoo Machinery and Wacker Neuson, a leading manufacturer of construction equipment and compact machines.

This partnership will enable Kanoo Machinery to distribute light construction equipment from Wacker Neuson across Saudi Arabia.

The Saudi market, especially in the Western region, is witnessing rapid growth, attributed to the presence of large-scale infrastructure projects such as NEOM and ongoing developments in the Holy city of Makkah, Madinah and Jizan.

Kanoo Machinery remains committed to supporting these initiatives by offering its cutting-edge machinery and equipment ensuring that their products and solutions are in-line with current and upcoming projects within the region.

The strength of Kanoo Machinery is its comprehensive after-market solutions, parts showrooms and dedicated customer service centers spread across the Kingdom of Saudi Arabia.

Commenting on the event, Ahmed Fawzi Kanoo, Board Member Yusuf Bin Ahmed Kanoo, said: "The Open Day event opened doors to enhanced collaborations and new partnerships with stakeholders across the value chain, while showcasing our future-ready offerings in the machinery space. We remain committed to staying at the forefront in offering high-quality, reliable, and customer-centric services to meet the evolving needs of the construction industrial sectors in KSA and the GCC region"

Manoj Tripathy, CEO of Kanoo Industrial & Energy, said: "It was

a pleasure hosting the Kanoo Machinery Open Day at our Jeddah facility, which provided us with valued interactions with our esteemed clients, suppliers, and industry professionals. The event highlights our emphasis on providing excellent service and building long-term relationships with our diverse client base"

DRIVING LOCAL MANUFACTURING

Separately, Kanoo Energy signed an agreement with DOPAK (DOVIANUS), a leading global manufacturer of sampling systems and related accessories for liquids, gases, and liquefied gases, to design, engineer, and locally manufacture manual sampling systems in Saudi Arabia.

The agreement is line with Kanoo Energy's commitment to drive localisation in the Kingdom, spearheaded by Ali Abdulla Kanoo, Deputy Chairman, Yusuf Bin Ahmed Kanoo and President of Kanoo Industrial & Energy.

By manufacturing DOPAK manual sampling systems locally, Kanoo Energy aims to enhance local value by offering engineering, assembly, and testing services. This collaboration is expected to enable faster delivery of manual sampling systems to customers in Saudi Arabia.

The localisation efforts of Kanoo Energy demonstrates its ongoing continued commitment to supporting Saudi Arabia's push for local manufacturing initiatives, adhering to the In-Kingdom Total Value Add (IKTVA) requirements.

These efforts are aligned with Saudi's Vision 2030 and localisation initiatives, such as the In-Kingdom Total Value Add (IKTVA) programme.

Kanoo Energy emphasises sustainability through advanced technologies and adopting best practices amidst an evolving energy landscape.

Building on its legacy of innovation and local impact, the company remains committed to creating more job opportunities and contributing to a cleaner future.

Commenting on the partnership, Ali Abdulla Kanoo said: "This partnership is another step in our journey to promote localisation. By combining Kanoo Energy's in-depth regional knowledge with the domain expertise of DOPAK, this collaboration will bring immense value by offering tailored solutions to address the unique demands of the region's industries."

Ryan Welsh, Director, Global Sales, Crane said: "This strategic alliance with Kanoo Energy will enable us to deliver exceptional value-added services to various stakeholders in the region. Our local operations will empower us to provide tailored solutions for the region's industries with enhanced operations and higher level of service."



Ali Kanoo exchanging the agreement with Ryan Welsh



Signed ... the agreement between Kanoo Machinery and Wacker Neuson

Energy fund advances digital transformation

THE Arab Energy Fund, formerly known as APICORP, has implemented the Temenos Arrangement Architecture Consumer Lending and Facilities Lending solution by Systems Arabia.

The implementation will support The Arab Energy Fund's Corporate Banking by enhancing loan issuance and management, particularly to accommodate products related to sustainability, green initiatives, and Sharia-compliant facilities.

Additionally, it improves the Fund's ability to manage syndicated loans and the functions effectively.

According to Fahad Alshahrani, CSSO of The Arab Energy Fund: "This implementation marks a pivotal step in our digital transformation journey, significantly enhancing our operational efficiency and service delivery to our clients. This advancement will enhance our efficiency in providing superior lending offerings to our clients and streamline our agency operations."

Rao Hamid, General Manager, Systems Arabia, commented: "We are proud to partner with The Arab Energy Fund on this transformation, representing a significant leap forward for lending modernization in the region."

On this part, William Moroney, Chief Revenue Officer, Temenos, said: "Temenos is honored to partner with Systems Arabia in supporting The Arab Energy Fund's journey toward lending modernization, providing a unified, flexible, and scalable platform for loan servicing."

Temenos provides the T24 Arrangement Architecture module



The Arab Energy Fund drives digital transformation

for Consumer Lending and Facilities Lending (clubbing loans).

Notably, The Arab Energy Fund was the first to implement the clubbing feature of the AA module in the Mena region.

Historically, the fund has been one of the first customers of

T24 (previously Globus) in the Middle East.

Last month, The Arab Energy Fund unveiled its new brand identity during a milestone event celebrating the institution's 50th anniversary.

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ECG acquires MT Enterprises to expand industrial services

The combined expertise and resources of both companies will drive innovation and localisation and enhance service delivery, unlock new opportunities for growth and collaboration in Saudi Arabia and across the region

ENERGY Capital Group (ECG), a Saudi-based investment firm specialising in industrial services and global technologies, has acquired MT Enterprises through its ECG2.0-Fund2.

This strategic move strengthens ECG's industrial services platform, advancing its commitment to local content development, technology transfer, and sustainable job creation in alignment with Saudi Vision 2030 and the Aramco In-Kingdom Total Value Add (iktva) programme.

The integration of MT Enterprises into ECG's portfolio will enhance the combined entity's ability to offer a comprehensive suite of services, fostering innovation and improved service delivery across multiple industries.

This acquisition not only bolsters ECG's presence in Saudi Arabia but also strengthens its capacity to support customers throughout the Middle East.

ECG2.0-Fund2 is designed to revolutionise industrial services and advance technology-driven solutions to enhance the operational efficiency of critical sectors. The fund's strategic



Ali Al Turki

investment priorities include:

- **Industrial services:** Focusing on the oil and gas, petrochemicals, power and water, metals,

and mining sectors.

- **Global technologies:** Investing in cutting-edge solutions that deliver competitive advantages and differentiated business models.

By consolidating the industrial services sector in Saudi Arabia, ECG2.0-Fund2 aims to foster competitive differentiation, integration, and market expansion while exploring global opportunities to enhance technological innovation and value creation.

ECG2.0-Fund2 anticipates exiting its industrial services platform through an Initial Public Offering (IPO) in less than two years, reinforcing its commitment to delivering long-term value to its stakeholders.

Ali Al Turki, Managing Partner of ECG, says: "The acquisition of MT Enterprises marks a significant milestone in our strategy to develop a consolidated and compelling industrial services company through ECG's Fund2. The combined expertise and resources of both companies will drive innovation, enhance service delivery, and unlock new opportunities for growth and collaboration in Saudi Arabia and across the region."

Wael Elakkawi, General Manager of MT Enterprises, adds: "Joining forces with Energy Capital Group marks an exciting new chapter for MT Enterprises. This acquisition not only validates the strength of our technical expertise and market reputation but also provides a platform for accelerated growth and innovation. With ECG's strategic vision and resources, we are confident in our ability to enhance our service offerings, expand our reach, and deliver even greater value to our customers and stakeholders. We look forward to contributing to ECG's industrial services platform and supporting its long-term growth objectives."

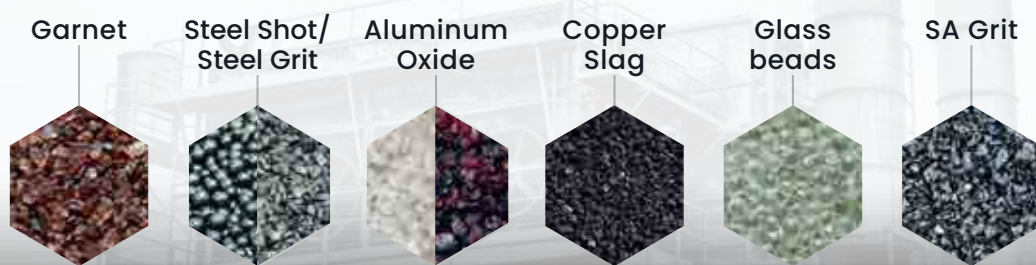
Established in 2007, MT Enterprises has built a strong reputation for delivering high-quality technical services across the industrial sectors in Saudi Arabia.

The company's team of skilled engineers and technicians brings extensive experience in various technical domains, including testing and commissioning; calibration and maintenance; training programmes; and installation and repair services.



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Saudi AI pioneer nybl to drive innovation in O&G

SAUDI technological pioneer nybl has entered into a collaboration agreement with US-based global energy leader NOV to enhance the former's offerings for the oil and gas industry.

The company is renowned for its advanced science-based deep tech and artificial intelligence (AI) solutions.

The partnership between nybl and NOV marks a significant step forward in advancing upstream production technologies.

It will integrate nybl's AI and analytics with NOV's Max™ production suite within the Max Platform™, offering real-time operational insights to improve efficiency, predict equipment failures, and maximise production for oil and gas operators.

Noor Alnahhas, Founder & CEO of nybl, states: "Our strategic relationship with NOV reinforces nybl's commitment to delivering cutting-edge artificial intelligence to the industries that power humanity. Energy drives every aspect of our lives, and by integrating nybl's AI into NOV's Max™ production software suite, we are advancing the oil and gas industry with enhanced upstream production solutions."

He says the collaboration is a testament to nybl's vision of developing world-class technology in Saudi Arabia and exporting it globally.

"By bringing Saudi-born innovation to the US market, we are not only expanding nybl's global footprint but also contributing to the Kingdom's economic diversification and technological leadership in alignment with Saudi Vision 2030," he says.

Matt Gipson, Senior Vice-President of NOV's Artificial Lift business unit, states: "Working with nybl represents a forward-thinking collaboration that demonstrates the value of international collaboration in the tech domain. By integrating nybl technology with NOV's Max Production software suite, we are empowering operators to optimise well production and equipment performance, resulting in greater returns throughout the life of their assets. Together, NOV and nybl are poised to set a new standard for innovation in upstream production optimisation technologies."

This alliance highlights nybl and NOV's shared commitment to driving innovation in the oil and gas sector. By combining AI with platform solutions, the collaboration serves as an inspiring example for future strategic partnerships within Saudi Arabia's vibrant energy sector.



The agreement signing

Hilal Technology is a digital transformation leader

Hilal Technology's presence at LEAP 2025 reinforced its position as a major player in the IT solutions industry, committed to empowering businesses with the technology and expertise they need to succeed in the digital age.

The leading IT solutions provider with more than 35 years of experience serving the pan-regional market, announced its successful participation in the event, which took place in Riyadh from February 9-12, 2025.

Exhibiting alongside strategic partners Dell Technologies, as a Titanium partner, and AWS, as an Advanced Consulting partner, Hilal Technology showcased its

Hilal Technology is uniquely positioned to help businesses

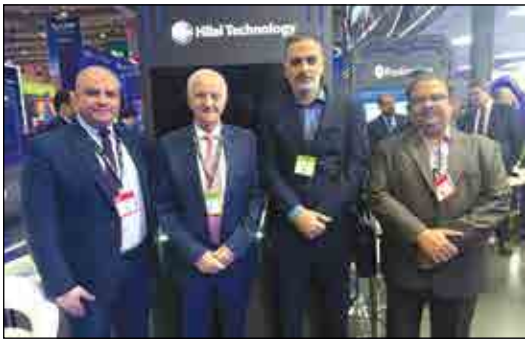
● *navigate the complexities of digital transformation.*

– Jubran Abdulrahman

Saudi Arabia and Bahrain providing monitoring and response capabilities, ensuring the security and resilience of clients' IT environments.

• **Experienced team:** A team of over 250 qualified sales and presales professionals provided expert guidance and support throughout the entire customer journey.

• **ISO certifications:** Hilal Technology's commitment to quality was underscored by its ISO certifications, demonstrating adherence to the highest industry standards.



Ronnie Middleton, Managing Director, Al Hilal Group (second from left) and Jubran Abdulrahman (second from right) with other group officials during LEAP 2025

comprehensive portfolio of solutions designed to empower businesses in their digital transformation journeys.

With a strong presence across the region and dedicated Security Operations Centers (SOCs) in Saudi Arabia and Bahrain, Hilal Technology offers unparalleled expertise in addressing all aspects of IT infrastructure, networking, cybersecurity, cloud solutions, artificial intelligence (AI), business applications, and managed services.

The company has on hand a team of over 250 highly qualified sales and presales professionals to provide tailored solutions that meet the unique needs of each client.

Commenting on the participation, Jubran Abdulrahman, Executive Director of Al Hilal Group, said: "We were thrilled to be part of LEAP 2025, alongside our esteemed partners Dell Technologies and AWS."

He added: "With our extensive experience, pan-regional reach, and comprehensive solution portfolio, Hilal Technology is uniquely positioned to help businesses navigate the complexities of digital transformation. We understand that each organisation's needs are different, and our team of experts worked closely with clients to develop and implement customised solutions that drive real business value."

At LEAP 2025, Hilal Technology's highlighted the following key areas:

• **Comprehensive solutions portfolio:** From infrastructure and networking to cybersecurity, cloud solutions, AI, business applications, and managed services, Hilal Technology offered a one-stop shop for all IT needs.

• **Pan-regional expertise:** With 35 years of experience serving the region, Hilal Technology possesses a deep understanding of the local market dynamics and business challenges.

• **Strategic partnerships:** Collaborations with industry leaders, including Dell and AWS, among many others, enable Hilal Technology to deliver cutting-edge solutions and unparalleled value to its clients.

• **Dedicated SOCs:** Strategically located SOCs in



Hilal Technology experts at the stand



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- ▶ Largest fleet of **Rental Valves, Choke & Kill Manifolds, Flow Iron, Hubs & Clamps & DNV Baskets**
- ▶ Pioneers in **Local Manufacturing** - Empowering Saudi Economy and our Customers Local Sourcing Strategy



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