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Published By
Thailand
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FBI Publications (Thailand)

No.28 | July - September 2026

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Editor's Message

Dear Reader,

Welcome to the **first edition of Oil & Gas Today Magazine for 2026**. As the energy industry continues to embrace digital innovation and sustainability, technology is playing an increasingly important role in building safer, smarter, and more resilient operations.

In this quarter's issue, our cover story explores how smart instrumentation is helping oil and gas operators improve reliability, enhance safety, and optimize asset performance.

We also highlight the latest innovations, from next-generation OT cybersecurity that strengthens critical infrastructure to an AI-powered subsurface platform developed by Geoteric and SINTEF for better exploration decisions.

Beyond technology, this edition features PTTEP's landmark wellhead platform reuse project, Indonesia's expanding overseas oil investments, and major offshore carbon storage initiatives in Southeast Asia.

We hope you enjoy this issue and look forward to welcoming you to **Oil & Gas Thailand (OGET) 2026, 14-16 October 2026 at BITEC, Bangkok, Thailand**

Sincerely,

Kenny Yong

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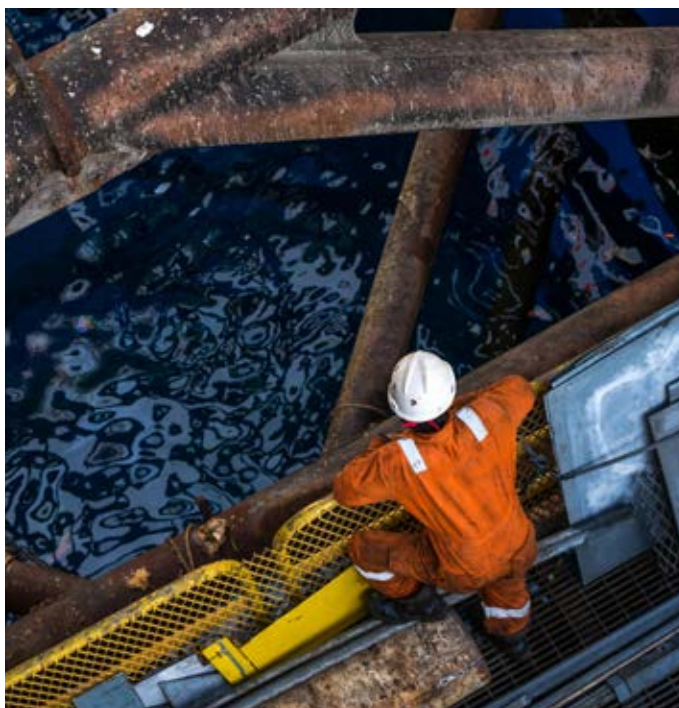
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Thailand's Land Bridge: A New Gateway for Regional Energy Trade



Chaiyaporn Arunrasamee hunched over his fishing nets, overlooking the waters of the Andaman Sea, where Thailand's government is proposing an ambitious **"Land Bridge"** that will ferry goods between ports on opposite sides of the peninsula.

"Personally, I don't want it to happen at all," Chaiyaporn said of the project, which Thai Prime Minister Anutin Charnvirakul has resuscitated after the war in Iran and the closure of the Hormuz Strait highlighted countries' reliance on strategic maritime chokepoints. Plans envision a 1 trillion baht (\$30.45 billion) logistics corridor to offer an alternative route to the congested Strait of Malacca by connecting two new deep-sea ports: Chumphon, on the Gulf of Thailand to the east, and Ranong, along the western Andaman coast, where Chaiyaporn, 50, has fished for his entire life.

"This thing will be located in the area where we make our living," he said last month in the small fishing hamlet of Baan Hat Sai Dam on an island ringed by mangrove forests. "Where will we go?"

Reuters crisscrossed the land and communities in the path of the proposed Land Bridge and interviewed more than 15 residents, local officials, experts, planning leaders and others involved or affected by the process.

The interviews, as well as government documents reviewed by Reuters, reveal previously unpublished details of a project with promises of savings and speedy shipments, but hampered by complicated logistics, local opposition and a staggering cost that has yet to attract major investors.

Analysts say the project currently appears economically ambitious and is unlikely to compete with Malacca as a global transit route, but it could prove viable as a smaller-scale strategic corridor for Thailand.

The 900-km (550-mile) long Malacca Strait is bounded by Indonesia, Thailand, Malaysia and Singapore and provides the shortest sea route from East Asia to the Middle East and Europe.

"The land bridge may ultimately...emerge as a modular national security asset aimed at securing local energy routes and boosting Thailand's own western export capabilities," said Eugene Mark at Singapore's ISEAS-Yusof Ishak Institute.

Thailand's proposed 'Land Bridge' project

Thai government plans envision a 1 trillion baht (\$30.45 billion) logistics corridor to offer an alternative route to the congested Strait of Malacca by connecting two new deep-sea ports.

Alternative To Malacca

An internal government presentation seen by Reuters says the proposed corridor could reduce logistics costs by nearly 30% and cut transit times by up to 14 days for cargo moving between southern China and ports in the Indian Ocean serving South Asia and the Middle East.

At the core of the project is a standard-gauge railway across the 90 km (56 miles) between the two deep-sea ports, which will be capable of handling up to 20 million Twenty-foot Equivalent Unit (TEU) a year, according to the presentation.

One TEU represents the volume of a single, standardized 20-foot shipping container.



Another meter-gauge rail line will link the cargo flow to the existing national railway network. The corridor would also be supported by multi-lane highways and local roads, all integrated with Thailand's broader transport network.

About 80% of all container traffic handled at major regional ports along the Malacca Strait, including Singapore, consists of trans-shipment cargo waiting to be transferred between vessels rather than goods destined for local markets, according to Thai estimates.

"We want to capture some of this 80% market, particularly the feeder segment," said Jiraroht Sukolrat, Director-General of Thailand's Office of Transport and Traffic Policy and Planning, referring to freight ships with 12,000 TEU capacity or lower.

Overall, feeder-to-feeder cargo movements from the Gulf of Thailand to the Andaman Sea - or vice versa - could be around 10% cheaper and six days faster than comparable routes through Singapore, largely because of lower congestion, according to the internal government presentation.

"We are not targeting giant mainline vessels," Jiraroht said.

Diplomatic Balancing Act

A Thai government-appointed panel, currently reviewing the projects and its previous impact assessment reports, is due to submit its findings before the end of July.

The Land Bridge plan, first floated around 2020, is a successor to a series of infrastructure schemes pursued by Thai governments over two decades that did not materialise due to shifting policies and lack of continued investment support.

Unlike earlier iterations, the current version of the project excludes petrochemical complexes and oil refineries, focusing instead on ports, railways and light industries.

"The concept hasn't really changed. What has changed is the packaging," said Wipawadee Panyangnoi, an independent researcher who wrote her doctoral dissertation on the Land Bridge proposal.

"In the past they openly talked about industrial estates and petrochemicals, which people opposed. Today the project is framed as transport infrastructure and logistics because that language is easier for the public to accept."

The government faces an uphill effort to convince cargo liners to bear the financial and time costs of unloading, moving goods overland, and reloading them onto another vessel, said Mark of the ISEAS-Yusof Ishak Institute.

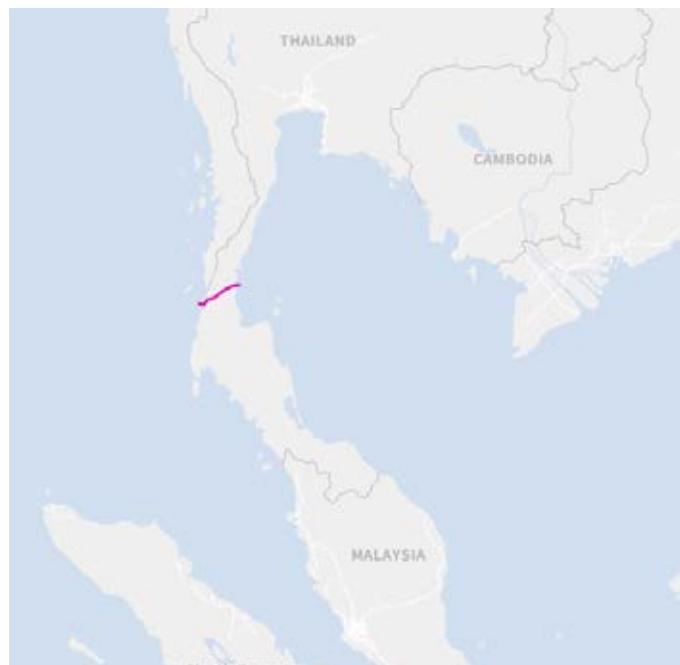
"Proving that this double-handling model can genuinely compete with the seamless transit through the Strait of Malacca remains a major hurdle," he said.

But authorities have learned from unsuccessful past projects and the state will play a regulatory and supporting role, while the financing primarily comes from private investors, said Jiraroht.

"It has to be a consortium involving shipping lines, port operators, financiers and land developers," he said.

So far, investor interest has been decidedly cautious and non-committal due to shifting policy frameworks and immense capital requirements, Mark said.

The project also faces a tricky geopolitical situation, with neighbours



Approximate route of the project based on Thai government presentations
Source: Reuters reporting

watching with both cautious interest and wariness, he said.

"Chinese state enterprises are unlikely to commit significant capital unless they secure strong operational leverage, which would trigger intense domestic political pushback in Thailand over foreign control," Mark said.

"Thailand must navigate a delicate diplomatic balancing act to prevent the corridor from becoming a geopolitical flashpoint."

The Singapore foreign ministry did not immediately respond to Reuters requests for comment.

Expanding Resistance

Chaiyaporn is among a dozen residents along the 90-kilometers (56-mile) corridor between the two seas, home to fishing and farming communities that would be upended by the project, who told Reuters that they are opposed to the plan.

In the middle of the proposed land bridge corridor in the fertile Phato district, where durian plantations and coffee farms bring in substantial income, some residents question whether this scale of industrialisation is needed at all.

"My hometown's durian industry alone generates around 10 billion baht a year without needing to build anything new," said coffee entrepreneur Chalermchart Seekhiao, 30.

"People need to understand: this isn't an empty wasteland."

The project suffered a blow this month when regulators ordered a completely new Environmental and Health Impact Assessment because of a large discrepancy between government and private research estimates on the density of marine life near the proposed ports.

"Local opposition alone rarely cancels a top-down mega-project in Thailand, but it acts as a powerful regulatory drag that compounds investor risk," Mark said.



PTTEP Marks Thailand's First Total Wellhead Platform Reuse, Advancing the Circular Economy

PTTTEP has successfully achieved Thailand's first "Total Wellhead Platform Reuse" by redeploying an entire decommissioned petroleum wellhead platform as a complete structure. The initiative demonstrates a tangible approach to maximize the value of existing assets while reducing execution timelines, optimizing costs and lowering greenhouse gas emis, in line with the circular economy principles and the company's sustainability commitments.

Mr. Montri Rawanchaikul, Chief Executive Officer of PTT Exploration and Production Public Company Limited or PTTEP, said that in petroleum production, when resources in the field are depleted, wellhead platforms that remain structurally sound and safe can be reused to maximize their value and extend their utilization. PTTEP has therefore integrated the circular economy concept with engineering expertise and advanced technology to enable the Total Wellhead Platform Reuse, redeploying an entire wellhead platform as a complete structure. The first implementation was carried out at the Jakrawan K wellhead platform (JKWK), in the Funan field under the G1/61 Project. The topside, jacket, and selected pile sections were relocated and reinstalled for use within the same field. This reduced the overall construction and installation period to only six months, down from approximately 20 months for a newly built platform, or around 70%. Additionally, the approach cut construction costs by approximately 35–50% compared with constructing an entirely new wellhead platform.

In particular, the initiative is also expected to reduce greenhouse gas emissions by approximately 3,270 tonnes of carbon dioxide equivalent per platform, by reducing the use of steel and other equipment required for constructing a new platform. In this operation, PTTEP adopted the Wet Tow method to relocate the jacket, helping curb energy consumption and minimize impacts on marine life attached to the platform structure. This supports a balance between energy production and marine environmental stewardship.

"This achievement reflects the practical application of circular economy principles in petroleum exploration and production operations. It marks the first time in Thailand that a wellhead platform has been fully reused as a complete structure, demonstrating an efficient and optimized resource utilization. The initiative helps shorten operational timelines, reduce the need for new resources, and lower greenhouse gas emissions. As a result, it has created value across multiple dimensions, including economic benefits, energy security, and environmental sustainability," said Mr. Montri.

Building on this achievement, PTTEP will continue expanding this initiative. During 2027–2029, the company expects to reuse approximately 10 additional wellhead platforms that remain structurally sound and have passed safety assessments. This effort will further enhance resource efficiency and expand the application of circular economy concept across the operations. PTTEP continues to advance sustainable operations while contributing to long-term energy security and environmental responsibility.



Thailand-Malaysia Advance A-18-01 Development in JDA to Support Long-Term Natural Gas Production

The Thai Cabinet has approved a proposal from the Ministry of Energy endorsing a new set of contractual arrangements for Block A-18-01 in the Thailand-Malaysia Joint Development Area (JDA), marking an important step toward ensuring continued natural gas production and strengthening long-term energy security.

The approval covers four agreements designed to facilitate the transition from the existing Block A-18 production sharing framework to a new contractual structure for Block A-18-01. These include: A termination agreement for the existing Block A-18 Production Sharing Contract (PSC); A notice of termination for the existing natural gas sales agreement under Block A-18; A new Production Sharing Contract for Block A-18-01; and A new natural gas sales agreement associated with the Block A-18-01 PSC. The Cabinet also authorized the Chief Executive Officer of the Thailand-Malaysia Joint Authority (MTJA) to sign all four agreements on behalf of the Joint Authority, with the Deputy Chief Executive Officer serving as witness. In addition, the Cabinet approved the inclusion of international arbitration provisions in three of the agreements—the PSC termination agreement, the new Block A-18-01 PSC, and the new gas sales agreement—in accordance with the Cabinet resolution dated July 14, 2015. The proposed agreements had previously been endorsed by the 152nd Meeting of the Thailand-Malaysia Joint Authority Committee on August 16, 2025.

Ensuring Continuity of Gas Production

The Ministry of Energy said the new contractual framework is intended to build on the long-standing success of the Thailand-Malaysia Joint Development Area, which has been in operation since 1994. As petroleum reservoirs in the area

mature, operators are facing increasingly complex geological conditions and significantly higher production costs. With the existing contracts scheduled to expire in 2029, the government considers it essential to implement a structured transition by bringing the new agreements into effect on January 1, 2026. The objective is to maintain investor confidence, encourage

continued exploration and field development, and prevent disruptions in natural gas production that could affect fuel supply to the Chana Power Plant and broader economic activity in southern Thailand.

Updated Fiscal Terms and CCS Readiness

According to the Ministry, the new agreements introduce revised fiscal terms designed to better reflect current industry conditions and improve investment attractiveness. The contracts also incorporate provisions that support the future deployment of Carbon Capture and Storage (CCS) technology, aligning with Thailand's national greenhouse gas reduction and net-zero emissions objectives. The government expects the updated framework to enhance long-term energy security while safeguarding the economic benefits and sustainable management of shared petroleum resources between Thailand and Malaysia.

Broad Government Support

The Ministry of Natural Resources and Environment and the Ministry of Industry raised no objections to the proposed agreements. The Office of the National Economic and Social Development Council supported approval of all four contracts, while the Office of the Attorney General confirmed there were no legal obstacles to their execution. Meanwhile, the Council of State concluded that the agreements fall within the legal authority of the Thailand-Malaysia Joint Authority and are consistent with the responsibilities prescribed under applicable law.



Indonesia Eyes Latin America for New Oil Investments



This undated photo, provided by Pertamina Exploration and Production (PEP), shows a worker inspecting the piping system at the Adera Field in South Sumatra. (Pertamina EP via Jakarta Globe)

Indonesia is looking to tap into new crude reserves in Latin America besides its current Venezuelan oil field, according to a deputy minister, with the future deals set to be helmed by state-run energy giant Pertamina.

The company's subsidiary Pertamina Internasional Eksplorasi dan Produksi (PIEP) holds a 71.09% stake in the Paris-based oil firm Maurel & Prom (M&P), which owns assets in Venezuela. Deputy Foreign Minister Arif Havas Oegroseno revealed Thursday that Jakarta had been eyeing other oil fields in other parts of Latin America, all the more so as the Strait of Hormuz blockade enters its fourth month and has fueled a global energy crunch.

"We are thinking of investing in other Latin American nations [outside Venezuela]. ... The region holds immense potential and many countries there have oil and gas reserves," Havas told reporters shortly after a parliamentary hearing on Thursday.

The senior diplomat did not name a specific Latin American nation that Jakarta had been negotiating with. However, reports show that the region is home to 20% of the proven oil reserves, some of which are located in Brazil, Ecuador, and Mexico, although they are largely concentrated in Venezuela.

Havas went on to say that Pertamina "had recently been able to resume its operations in Venezuela".

The US had previously revoked M&P's special license that allowed it to operate in the oil-rich nation despite Washington's sanctions. The cancellation aimed to put pressure on the now-ousted Venezuelan leader, Nicolas Maduro, whom US President Donald Trump strongly dislikes.

In February 2026, or more than a month after Maduro's capture, the US finally gave its green light for M&P to resume its operations. M&P reported that its working-interest oil production on the Urdaneta Oeste field in Venezuela hit around 8,194 barrels per day in 2025, up 34% year-on-year.

PIEP's current portfolio spans Algeria, Malaysia, Italy, Colombia, and Nigeria, among others.

The Strait of Hormuz, which carries nearly a quarter of the seaborne oil trade, has been effectively shut since the US-Israel surprise assault against Tehran in late February. Crude prices have skyrocketed since then, following supply shocks. Indonesia, too, has just recently raised the price of its non-subsidized fuel Pertamax by 32%. Two oil tankers belonging to Pertamina are also waiting for their Hormuz exit.



Deputy Minister of Foreign Affairs Arif Havas Oegroseno. (ANTARA/Nabil Ihsan)



Petronas Expands South America Oil & Gas Portfolio with Two Offshore Discoveries



Petronas explains that the Caiman-1 exploration well, drilled in 90 meters of water to a total depth of 5,065 meters, encountered multiple oil-bearing Cretaceous sandstone intervals. The Swartzia Aspasia Complex-1 (SAC-1) exploration well, located 8 kilometers east of Sloanea-1 gas discovery in 610 meters of water depth and drilled to a total depth of 4,560 meters, intersected gas-bearing sandstone reservoirs.

The drill stem testing (DST) demonstrated strong gas deliverability, indicating good reservoir quality. The Roystonea-2 appraisal well, drilled 7 kilometers north of Roystonea-1, confirmed the lateral extent of oil-bearing reservoirs.

The DST results indicate strong oil productivity, further validating the quality and extent of the reservoir system. The two discoveries and appraisal operations in Suriname's Block 52 bring Petronas' cumulative achievements in the country to eight wells.

As a result, this collectively unlocks recoverable resources of more than 1 billion barrels of oil equivalent (boe). Petronas operates Block 52 with 80% participating interest, while the remaining 20% is held by Paradise Oil Company (POC), a wholly-owned subsidiary of Staatsolie Maatschappij Suriname (Staatsolie).

Petronas currently holds interests in Suriname's eight offshore blocks: 9, 10, 48, 52, 53, 63, 64, and 66. The latest discoveries build on the commerciality declared for the Sloanea gas field in November 2025, with a final investment decision (FID) on its development targeted by the end of the year.

Mohd Jukris Abdul Wahab, Petronas' Chief Operating Officer and Executive Vice President & Chief Executive Officer of Upstream, commented: Eight successful wells in Suriname with recoverable resources of more than one billion barrels of oil equivalent unlocked, reflect the strength of our technical capabilities, disciplined execution, and strong partnership in Suriname.

"Block 52 sits within a highly prospective corridor, the Golden Lane, and we remain focused on translating this resource base into long-term value for Suriname and for Petronas."

The company claims that the hydrocarbon discoveries further strengthen the case for multiple oil and gas developments in Block 52 and Suriname's emergence as a significant deepwater hub in the Suriname-Guyana basin. Petronas is actively augmenting its global oil and gas portfolio, as demonstrated by the start of a drilling campaign with TotalEnergies off the coast of Papua New Guinea.



ExxonMobil, Indonesia and Malaysia Advance Large-Scale Offshore Carbon Storage Projects



A region at a crossroads: growth versus emissions

Indonesia and Malaysia sit near the top of the region's industrial emitters list. Both countries have set national net-zero targets, yet both face the same uncomfortable reality: renewable energy alone can't get them there. Cutting emissions from heavy industry requires a fundamentally different toolkit. That's where carbon capture and storage enters the picture.

The International Energy Agency has been direct on this point. Reaching net zero, the IEA has said, will be **"virtually impossible without CCS."** That framing matters — it shifts CCS from a niche technical option into a core requirement of any credible decarbonization strategy.

What carbon capture actually means — and why underground storage matters

The process isn't theoretical. CCS can remove around 90% of CO₂ emissions from industrial activity or power generation, making it one of the most effective tools available for hard-to-abate sectors. For industries like cement and steel, where emissions are structural rather than incidental, that capacity is difficult to replicate through any other means.

The Indonesia deal: a \$2.6 billion bet on offshore storage

The agreement between ExxonMobil and Indonesia's state-owned energy company PERTAMINA represents one of the most ambitious CCS commitments in the Asia Pacific region to date. The Heads of Agreement outline a potential US\$2.6 billion project

centered on offshore fields near Sumatra and Java — established oil and gas territories with geological characteristics suited to CO₂ storage.

The scale is notable. The project could contribute to storing up to 3 billion metric tons of CO₂ across Asia Pacific, placing it among the largest storage targets in the region. Immediate work includes concept-select studies, pre-Front End Engineering Design, and subsurface analysis to assess the viability and configuration of storage sites.

Malaysia's offshore hubs: among the first off the peninsula

In Malaysia, ExxonMobil has signed Project Development Agreements with national oil company PETRONAS to advance CCS hubs in the Malay Basin. The agreements are described as among the first CCS activation initiatives off the country's peninsula — a meaningful milestone in Malaysia's low-carbon transition.

The scope covers the full CCS value chain: technical evaluation of identified fields for CO₂ storage, development of commercial frameworks, and establishment of advocacy plans to support regulatory and policy development. That last element reflects how nascent the regulatory environment for CCS remains across much of the region. The hubs are also designed to accept CO₂ from international sources, positioning Malaysia as a potential storage destination for neighboring countries with fewer geological options.

Economic upside and the road ahead

Both Indonesia and Malaysia are positioning themselves as regional CCS hubs, meaning they could eventually accept captured carbon from across Southeast Asia. For smaller neighboring economies without viable offshore storage geology, that option could be the difference between meeting and missing their own net-zero commitments.

Regulatory frameworks are still being built in parallel with the technical work. Advocacy plans for enabling CCS policy are embedded in both sets of agreements — an acknowledgment that the legal and commercial infrastructure needs to catch up with the engineering ambition.

The agreements signed so far are early-stage — heads of agreement and project development frameworks rather than final investment decisions. The direction, though, is clear. Southeast Asia is beginning to treat large-scale carbon storage not as a distant possibility but as a near-term industrial strategy. How quickly the regulatory environment matures, and whether subsurface studies confirm the geology's promise, will determine whether that strategy moves from blueprint to reality.

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JERA Establishes LNG Business Hub to Drive Energy Security and Low-Carbon Growth



JERA took a step in reorganizing its international business with the creation of JERA Global Energy Solutions (GES), a subsidiary based in Singapore that will handle strategic planning, investments, and long-term liquefied natural gas (LNG) procurement. The company launched this structure on July 1, 2026, as part of a strategy to respond more quickly to an increasingly dynamic energy market.

The new company will be led by Irtiza Sayyed, an executive with extensive experience in the international energy sector. From Singapore, she will coordinate a specialized team that will drive the expansion of JERA's global supply portfolio and strengthen relationships with producers in various regions.

Singapore becomes the center of international strategy

Singapore was chosen because of its position as one of the world's leading energy trading hubs. The city-state is home to producers, traders, and financial institutions involved in the liquefied natural gas market, and also offers access to suppliers located in the Atlantic, the Middle East, and the Pacific Rim.

For JERA, operating from this platform will facilitate the negotiation of international contracts and allow for a faster response to changes in fuel prices and availability. The company manages between 35 and 40 million tons of LNG annually, a volume that places it among the players with the greatest negotiating power in the global market.

How will the functions be distributed within JERA?

The reorganization establishes a clear division between strategic activities and commercial operations.

While JERA Global Energy Solutions will focus on long-term procurement, corporate planning, and international investments, JERA Global Markets will continue to manage trading operations and shorter-term contracts. This structure aims to streamline decision-making

without sacrificing negotiating power in an environment where volatility continues to define the energy market.

Strategic supervision will continue under the direction of Ryosuke Tsugaru from Japan, maintaining coordination between the different areas of the group.

JERA reinforces its commitment to hydrogen and ammonia

In addition to liquefied natural gas, the new subsidiary will play a key role in developing lower-carbon fuels. Its responsibilities include exploring opportunities related to hydrogen and ammonia, two resources that Japan considers essential for reducing emissions within its electricity system.

The development of international alliances will expand access to these fuels and support projects that will accompany the energy transition in the coming years.

Impact on the Asian LNG market

JERA's decision could also influence the functioning of the regional market. By concentrating its acquisition strategy in Singapore, the company could improve efficiency in procuring supplies and promote greater transparency in transactions linked to the Japan Korea Marker (JKM) index, the benchmark for LNG prices in Asia.

At the same time, the move coincides with a scenario of growing demand in economies such as India and several Southeast Asian countries, while new liquefaction projects in the United States and Qatar will begin to incorporate a greater volume of supply between 2026 and 2030.

A long-term oriented strategy

With this reorganization, JERA strengthens its capacity to manage one of the world's largest liquefied natural gas portfolios from a strategic hub for international trade. The creation of JERA Global Energy Solutions also expands the company's reach into areas such as hydrogen and other lower-carbon fuels, preparing its structure to respond to the changes taking place in the global energy market.



Next-Generation OT Cybersecurity Strengthens Resilience Across Oil & Gas and Critical Infrastructure

Honeywell (NASDAQ: HON) today announced the expansion of its Operational Technology (OT) Cybersecurity Suite, delivering advanced, proactive protection for industrial environments facing an accelerating wave of sophisticated cyber threats. The enhanced portfolio integrates powerful new capabilities designed to defend critical infrastructure, streamline security compliance, and assist organizations to stay ahead of increasingly complex attacks.

Cyber-attacks against operational technology assets continue to grow in both frequency and sophistication, however, according to The World Economic Forum's annual Global Cybersecurity Outlookii, only 32% of organizations with industrial environments actively monitor OT systems and just 20% maintain dedicated OT security teams. Recognizing these risks, Honeywell's OT Cybersecurity Suite equips industrial companies to move beyond reactive security models and adopt a unified, forward-looking approach to cyber resilience.

"The cybersecurity landscape for industrial organizations continues to evolve rapidly, with increasingly advanced threats targeting critical operations," said Jim Masso, President and CEO of Honeywell Process Automation. "Organizations with a unified cybersecurity strategy across both digital and physical environments are setting a solid foundation for operational resilience while also avoiding potentially dangerous and costly attacks."

New Features of Honeywell's OT Cybersecurity Suite

Honeywell's expanded OT cybersecurity suite includes five new capabilities that build on the platform's current offerings to protect critical infrastructure and minimize operational risk:

- **Secure Media Exchange (SMX) Portable Scanner:** SMX is a specialized cyber-physical solution designed to protect industrial facilities and critical infrastructure from threats carried in on USBs and other removable media devices. Powered by advanced anti-virus and industry-leading threat intelligence, the new SMX Portable Scanner enables deep inspection of storage devices, Windows-based machines and air-gapped systems, reducing the risk of malware entering critical environments and disrupting supply chains.

- **Cyber Proactive Defense (CPD):** CPD is a next generation AI-powered monitoring solution purpose-built for Operational Technology (OT) environments facing increasingly more sophisticated cyber-attacks. Using advanced analytics and real-time monitoring, it correlates alerts across process and automation tools to deliver actionable insights, enabling organizations to proactively identify, prioritize, and mitigate threats before they escalate into full-scale attacks and impact critical operations.

- **Cyber Governance Risk and Compliance (GRC):** Streamlining compliance management, Cyber GRC automates evidence collection and audit reporting through AI and machine learning capabilities. The software reduces administrative burden by transforming weeks of manual effort into hours while providing greater visibility into security posture.

- **Data Diode:** Protecting sensitive data flows is paramount in industrial environments. Honeywell's data diode allows for secure, unidirectional data transfer, helping isolate critical systems and maintain high security standards in OT domains.

- **OT Security Operations Center (SOC):** As a managed service for network and endpoint monitoring, the OT SOC equips organizations with the expertise and resources needed to respond swiftly to incidents. With 24/7 monitoring and a vendor-agnostic hub, it enhances incident response, minimizes asset downtime, and helps ensure operational continuity.

The comprehensive expansion of Honeywell's OT Cybersecurity Suite is available now and is engineered for deployment across various sectors, including manufacturing, energy, and critical infrastructure.



How The Oil and Gas Sector Can Set The Health and Safety Standard for Critical Infrastructure



The oil and gas industry presents some of the most challenging and hazardous environments for workers globally. As with all critical infrastructure sectors, health and safety is a priority. Network video and audio solutions can be put in place to pre-emptively reduce worker accidents, protecting human lives and improving operational efficiency throughout the entire supply chain.

Its name highlights its importance. Critical infrastructure is defined as those systems, networks, and assets that are essential for the functioning of society and the economy. Among these, the oil and gas

industry plays a pivotal role, and naturally, ensuring the health and safety of its workforce is a top priority. First and foremost, a proactive stance towards health and safety is imperative to protect lives, while helping to maximise business continuity – the same oversights that endanger workers also cost businesses time and money when workers are injured or fines issued. With operations taking place in harsh and precarious environments, safety measures must be both pre-emptive and intelligent.

In this post, we explore how intelligent network video and audio solutions can enhance worker safety, help prevent accidents and enable a safer work environment across the entire oil and gas supply chain.



Responsibility lies with the employer

Last year, of 24 drilling contractors surveyed, 956 incidents were reported, indicating the high risk nature of the oil and gas industry. Drilling is especially hazardous, and workers are regularly faced with fire, high-pressure equipment, and toxic gases, with risks ranging from heat stress to hypothermia. Wellheads, often in remote areas, need constant monitoring despite being unmanned, while processing plants, many of which house hazardous areas require strict safety measures and real-time awareness. Even the transportation of oil via pipelines or tankers carries serious risks including spills, explosions and worker accidents.

Given this high-risk setting, employers have a legal and ethical obligation to deliver worker safety. Strict safety regulations set by organizations like Occupational Safety and Health Administration (OSHA) and International Association of Oil & Gas Producers (IOGP) require companies to take proactive measures to protect employees from workplace hazards. Failure to comply with safety regulations can result in significant legal penalties, lawsuits and loss of operational licenses but also detrimental financial losses and reputational damage.

Minimising safety risks in harsh environments

There is a clear need for high quality visual coverage to support and enhance in-person spot-checks. Network cameras not only enable detection of real-time incidents and handling of urgent situations safely and efficiently, but they are also able to identify and respond proactively to risks in the near future. Because this improved visual awareness can be used to analyse and improve safety practices and protocols, these capabilities raise the bar for the long-term safety and profitability of the site. In addition, network audio can also be introduced as a useful tool to mitigate risk and prevent injuries with live or pre-recorded messages.

By employing network video monitoring solutions, companies can actively identify and reduce the risks to employees in unpredictable environments. Weather-resistant and rugged network cameras, and other network devices such as radars, can continuously monitor sites in extreme conditions, providing high resolution images even in low light. Certain sites pose a considerably heightened risk for humans, particularly when dealing with combustible substances. Explosion-protected cameras and audio equipment also prevent ignition risks and can help monitor hazardous areas which are unsafe for human access.

Integrating network monitoring with AI-powered analytics supports worker safety by detecting hazards, reducing human error and ultimately enabling faster decision-making across the entire supply chain. This is especially true when integrating AI-powered cameras with additional devices such as access control systems and network audio. Through centralized control rooms you can oversee multiple sites at once helping to enhance efficiencies in terms of staffing and monitoring and increasing situational awareness.

One point to be aware of is that increased monitoring often comes with concerns regarding privacy. Fortunately, different static and dynamic masking options and the possibility of video redaction can put minds at ease and allow companies to adhere to strict data privacy requirements.



Real-time awareness in case of the unexpected

Sometimes, the unexpected happens no matter how proactive the approach. In those cases, a quick, well-informed response can save lives. Network cameras coupled with analytics can provide the remote access and awareness needed to react instantly, whether that means identifying someone who has fallen down or become injured, emerging smoke or fire, or leaks in their earliest stages:

- **Man down alerts** – For lone workers or high-risk areas, AI-powered analytics can detect slips, falls, or collapses, triggering immediate alerts.
- **Early fire prevention** – By complementing fire systems for faster intervention, cameras with AI-powered analytics can be trained to recognise smoke and early fire signs.
- **Leak and spill detection** – Thermal imaging or visual cameras with AI-powered analytics can detect leaks in pipelines, tanks and processes, reducing both safety issues and environmental risks.
- **Rapid evacuations** – Network cameras can complement emergency systems by providing real-time emergency insights and supporting response efforts by tracking evacuation progress.



Near-future risk management to support preventative measures

Today, it's possible to prevent accidents and incidents in the oil and gas industry before they even occur, thanks to near-future risk management. By leveraging AI and accessing real-time data from network cameras, operators can detect potential hazards in advance and step in to protect workers and ensure smooth operations.

For example, let's consider Personal Protective Equipment (PPE) compliance. Cameras equipped with AI-powered analytics can alert supervisors to workers not wearing the right equipment and help ensure safety standards. By integrating these cameras with horn speakers corrective messages can be issued automatically, while access control systems can deny entry to anyone without proper PPE before an incident occurs.

In some instances, visual inspection isn't enough to detect the early warning signs of machinery dysfunction. Thermal imaging can help to identify risks of gas leaks, corrosion, and pipeline weaknesses through early detection. Small temperature changes in machinery can indicate issues that are invisible to the naked eye. By alerting operators to the need for prompt maintenance you can prevent blowouts, fires, and pressure build-ups.

From a planning perspective, it's important to be able to identify and monitor high-risk areas effectively to prevent personnel from gaining access. You can use cameras with AI-powered analytics to not only detect if a worker enters a predetermined hazardous zone or restricted area but also trigger equipment shutdowns and issue audio or visual warnings to reduce accident risks. This is also true for identifying blocked exits in advance of an incident occurring. By triggering automatic alerts via horn speakers as soon as an exit is blocked, safe evacuation paths and regulatory compliance can be maintained before they are needed.

Driving lasting safety improvements

Enhanced visual coverage can also be analysed to improve safety practices and protocols. Identifying where issues can or do occur is the first step in creating a safer workplace, not only for the people involved, but also the surrounding environment. With this in mind, carefully reviewing recorded footage and logged alerts can be a valuable process for objectively evaluating existing policies and processes to reduce risks and achieve future-proofed safety improvements. Pinpointing areas of low regulatory compliance provides insights into necessary changes to make in future, such as refining policies, retraining employees or installing cameras to cover new areas or blind spots.

Finally, utilizing recorded footage is a powerful tool for employee training. Demonstrating how incidents happen, or almost happen and how proper policies could have prevented them strengthens safety awareness and education. At the same time, implementing comprehensive camera monitoring solutions helps employers verify compliance with safety protocols and demonstrate due diligence in preventing workplace hazards throughout the supply chain.

Taking the next step in worker safety

Like most sectors, the oil and gas industry is constantly evolving. As such, intelligent monitoring solutions can help companies stay ahead of the curve and play an essential role in enhancing worker safety, reducing hazards, and preventing accidents. By integrating cameras with AI-powered analytics, thermal imaging, and real-time alerts, employers can ensure their workforce is in safe hands and create a more secure working environment for all.

Learn more about how intelligent network video and audio solutions are transforming not only health and safety in the oil and gas industry, but also productivity and physical security.



GEOTERIC AND SINTEF DEVELOP JOINT AI AGENT PLATFORM FOR BETTER SUBSURFACE DECISIONS

A new platform based on open standards will make it possible to connect seismic interpretation directly with reservoir simulation. The goal is faster, better decision-making for energy companies - and more systematic management of uncertainty.

Geoteric and SINTEF have entered into a collaboration to demonstrate how specialised AI agents can work together across software, disciplines and vendors. The platform will show how Geoteric's solutions for AI-based interpretation of seismic data can be connected with simulators from SINTEF, enabling users to move more quickly from geological interpretation to dynamic models of how fluids move through the reservoir.

"I am convinced that open AI agent platforms will change the way geoscientists work. Based on my experience building the company that delivered Petrel to the oil and gas industry, I see this as an important next step for the industry - where specialised applications can collaborate seamlessly to provide better subsurface insight," says Jan Grimnes, Chair of Geoteric.

An exciting opportunity to operationalise research

Geoteric are experts in AI-based interpretation of seismic subsurface data, while SINTEF has extensive experience in reservoir simulation, mathematical models and research-based software for complex physical systems. Seismic data provides information about how different rocks and structures appear in the subsurface, while simulators describe how oil, gas, water or CO₂ may move through these structures over time.

"This collaboration is an exciting opportunity to operationalise the research we are doing in SINTEF Agent Lab on the use of AI agents as part of expert systems," says Knut-Andreas Lie, Chief Scientist at SINTEF.

By automating the interaction between specialised agents, users can obtain more verifiable interpretations and clearer quantification of uncertainty. This makes it easier to assess

alternative geological models, compare different scenarios and identify the solutions that provide the strongest basis for decision-making.

"For several decades, SINTEF has developed simulation methods and research-based software for reservoirs, CO₂ storage and other geoenery systems. Much of this work is based on open-source code and has been

adopted in collaboration with major international energy companies. In this project, we can combine that experience with new agent technology and show how open tools can be integrated into more automated and verifiable workflows," says Lie.

Showcasing at international tradeshow, IMAGE 2026

The results of the collaboration will be presented for the first time at the international geoscience conference IMAGE in Houston in August. The demonstration will show how specialised AI agents can connect seismic interpretation and dynamic reservoir simulation in a single shared workflow.

"For several decades, SINTEF has been one of Norway's most important research partners in technology for subsurface understanding and has contributed to a range of solutions that have shaped the oil and gas industry, including through the work that led to Petrel. The opportunity to once again collaborate with SINTEF, this time on developing next-generation AI-powered workflows, makes this partnership particularly exciting," says Grimnes.

The solution represents an important step towards a new generation of integrated workflows, in which AI agents collaborate across disciplines to combine interpretation, modelling, simulation and decision support.

"The opportunities lie not only in automating individual tasks, but in enabling specialised tools to work together to test alternatives, reveal uncertainty and give decision-makers a stronger foundation. This is what we want to demonstrate together with SINTEF," says Grimnes.

The aim is to give geophysicists, geologists and reservoir engineers faster insight, a stronger basis for decision-making and more systematic management of uncertainty throughout the workflow.



Advancing Reliability and Safety in Oil & Gas with Smart Instrumentation

The oil and gas industry continues to operate under increasing pressure—from volatile global demand to stricter environmental regulations and the drive toward digital transformation. In this high-stakes environment, operational efficiency, safety, and reliability are no longer optional—they are essential.

One of the key enablers of this shift is smart instrumentation, an evolution in process measurement technology that integrates precision sensing with digital intelligence. Among the companies at the forefront of this advancement is VEGA, a global specialist in level and pressure measurement. Their technology is helping operators unlock new levels of performance across upstream, midstream, and downstream operations.

Bridging Performance and Predictability

Oil and gas processes are notoriously complex. Operators deal with multiphase media, aggressive chemicals, extreme temperatures, and rapidly changing process conditions. Accurate and consistent measurement of level, interface, and pressure can be the difference between smooth operation and unplanned shutdown.

Traditional mechanical devices, while familiar, often struggle in these demanding environments. The modern plant requires instrumentation that not only withstands harsh conditions but also provides actionable data and integrates with digital infrastructure.

This is where VEGA's instrumentation excels—delivering robust performance with integrated diagnostics, remote configuration, and seamless system connectivity.

Radar Technology That Goes Further

Radar-based level measurement is a well-established technology in oil and gas, but recent advancements have pushed its capabilities further. The VEGAPULS 6X, VEGA's flagship radar sensor, leverages 80 GHz technology to achieve exceptional measurement accuracy—even in turbulent, pressurized, or vapor-heavy environments.

Designed as a universal radar sensor, VEGAPULS 6X adapts to virtually any application, from floating roof tanks and separators to distillation columns. It performs reliably even when faced with condensation, buildup, or foam—a common challenge in storage and process vessels.

Its compact design, easy configuration via Bluetooth, and industry certifications (including ATEX, IECEx, and SIL) make it ideal for hazardous area use and high-integrity applications.





Pressure Monitoring with Intelligence

In both upstream and refining operations, pressure monitoring plays a critical role in maintaining safety and product quality. VEGA's VEGABAR 80 series—including VEGABAR 82 for general applications and VEGABAR 83 for high-pressure scenarios—offers a highly durable solution with ceramic or metallic diaphragms tailored to aggressive or corrosive media.

These transmitters are more than just measuring devices. They provide integrated self-diagnostics and predictive maintenance insights, alerting operators to potential issues before they become critical. This proactive approach to maintenance supports uptime and reduces lifecycle costs—key metrics in today's performance-driven operations.



Interface Clarity in Separator Applications

One of the most persistent challenges in production operations is accurate interface measurement, especially in oil-water separators where emulsion layers can distort signals. VEGA's VEGAFLEX 80 series, based on guided wave radar (GWR) technology, delivers highly reliable interface detection even under fluctuating densities and variable fluid compositions.

These sensors have proven effective in both topside and onshore applications where clarity of phase boundaries is essential for process control and downstream product quality.



Connecting to the Digital Future

Beyond precision, modern instrumentation must integrate seamlessly with plant control systems. VEGA supports all standard protocols—HART, Foundation Fieldbus, PROFIBUS, and Ethernet-APL, the next-generation communication standard for process automation.

This connectivity enables real-time data access, enhanced safety loop integrity, and better decision-making through data analytics. The result: smarter plants with higher availability, improved process safety, and the flexibility to adapt to changing conditions.

Proven Performance in the Field

In field applications across oil and gas installations, VEGA sensors have demonstrated tangible benefits. Offshore platforms utilize VEGAPULS radar to monitor level in flare knock-out drums and condensate tanks with minimal maintenance. Refineries rely on VEGABAR pressure transmitters to protect against overpressure in critical process lines.

Separator vessels equipped with VEGAFLEX GWR achieve more consistent phase control, reducing product losses and manual interventions.

Conclusion

As the oil and gas sector continues to evolve, so too must its instrumentation. Operators today demand more than just accuracy—they require resilience, intelligence, and integration. VEGA's portfolio of radar, pressure, and interface measurement technologies is helping companies move toward that vision—where process insight drives reliability, and digital tools support operational excellence.

For operators looking to modernize their measurement infrastructure without compromising on safety or simplicity, smart instrumentation is no longer a future investment—it's a current necessity.



Contact us:

or more information: www.vega.com





ROBOTICS IN THE SPLASH ZONE:
**REDEFINING OFFSHORE INSPECTION,
CLEANING AND INTEGRITY MANAGEMENT**



Splash Zone Robotic Cleaning and IRM

The splash zone has long been recognised as one of the most hazardous and technically challenging areas of offshore structures. Exposed to continuous wave action, strong tidal forces, vessel movements, and accelerated corrosion, this narrow interface between air and seawater presents significant risks for both divers and conventional inspection methods.

One company actively addressing these challenges through robotics is Rototech Pte Ltd, a Singapore-based engineering specialist focused on inspection, cleaning, and repair operations within the offshore splash zone. Founded by subsea industry veteran Simon Hartog, the company has developed a modular, lightweight robotic platform designed to operate reliably in one of the most complex environments for offshore asset maintenance.

Rototech was founded as a company to supply Robotic services to the Splash Zone area of offshore structures, such as platforms, jetties, wind turbines etc.

The Splash Zone is the most dangerous area for divers and ROV's to operate in due to high waves, strong tides the presence of support vessels and their propellers as well as Flotsam and Jetsam. It is also the area where most damage occurs to a structure, as well as the area that is most at risk of severe corrosion. In order to provide a robotic solution for this problem, Rototech was formed.

- Rototech Pte Ltd was founded by Simon Hartog who is now the CEO. Simon has over 50 years' experience in subsea services as a diver and a Manager. He was area Manager Middle East for Fraser Diving and Operations and Equipment manager for Taylor Diving SEA. Simon held the record for the deepest dive performed in Asia from 1981 until 2013.

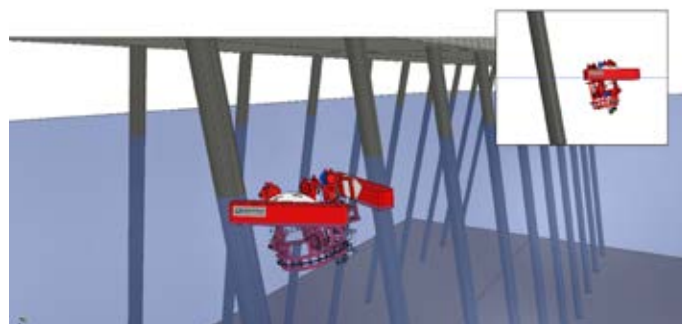
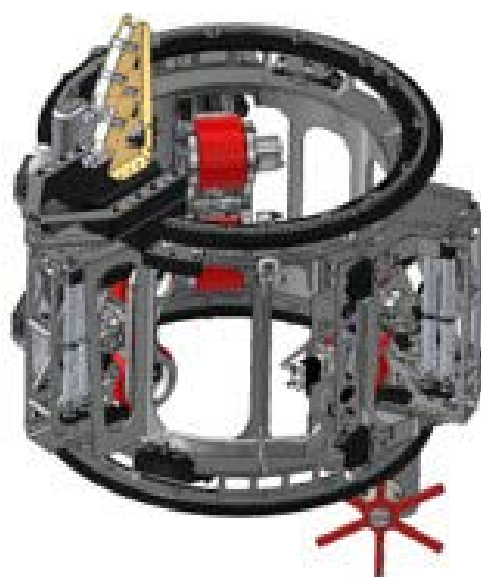
- In 2017, Simon and his development team set out to design and build a patented modular, light weight, subsea robotic system to perform PAUT inspection, cleaning, non-destructive testing, cutting & drilling repairs, and coating functions for subsea structures and wind towers.

In 2019 and 2020, the Mk 1 and Mk 2 Roto Climber® with Cleaning, CVI and Olympus PA/UT inspection modules were commissioned. In 2021 ARV Thailand a PTTEP Group Company entered into a joint development agreement with Rototech -

- In April 2021 Rototech and Olympus Singapore signed an MOU for collaboration, in advanced inspection for the Non-Destructive testing of pipelines and piles from surface to subsea and through the splash zone.

- This was followed by testing of the Olympus PAUT system underwater. This was a milestone as it meant that complete mapping of a riser, conductor or pile could be done with +/- 1mm accuracy. Not only above water but through the splashzone and subsea.

- In 2024 Rototech performed an inspection of 3 risers for Brunei Shell using a machine called the Roto Climber® Mk 1 Mini.





- The Roto Climber® Mk 1 Mini was designed to clean and map the corrosion on the riser using a Pulsed Eddy Current technique. This was because the riser was covered in an Anti-Corrosion coating of Neoprene that should not be removed whilst conducting the NDT mapping. The Roto Climber was able to walk down the riser and clean and map the corrosion with a +/- 1% accuracy.

- New developments in the Roto Climber family is the ability of the Roto Climber to walk over clamps or Guides.

- The Roto Climber is now divided into two families:

- 1) The Roto Climber® Assessor which is a lightweight tool for cleaning and mapping corrosion, using different inspection tools such as PEC, PAUT, TOFD, X-Ray and other inspection techniques as well as taking CP readings if required.

- 2) The Roto Climber® Constructor which consists of 2 wheel drive modules with in-between the two drive modules, a module to perform specialised services. These could include cutting services, wrapping services, X-Ray inspection, Bolting services, Laser scanning services, drilling services and potentially welding services.

- In 2024 the CWL Group invested in Rototech giving Rototech a greater exposure to the world as well as additional engineering and manufacturing ability and access to the Sonomatic fleet of inspection technology.

- This has led to the development of the new series of Roto Climber Assessor

- Other tools in the Rototech Group are the Roto Pile Inspector® a tool developed to clean and inspect marine piles and then if required to wrap them in an anti-corrosion tape.

The Roto Crawler® for repairing Pipelines and coming soon the Wind Climber® for climbing wind towers and inspecting and painting them.

By combining robotic mobility with advanced non-destructive testing and cleaning technologies, Rototech's systems are engineered to perform critical integrity management tasks that traditionally required diver intervention. This approach not only improves inspection consistency and data accuracy, but also significantly reduces safety risks associated with human operations in high-energy splash zone conditions.

As offshore operators continue to prioritise safety, efficiency, and long-term asset integrity, robotic solutions in the splash zone are increasingly positioned not as an alternative, but as an essential component of modern offshore maintenance strategies.

About Rototech Pte Ltd.

Rototech Pte Ltd is a Singapore based Robotics Company specializing in the "splash zone area" of the marine environment. Our tools are ATEX Zone 2, lightweight, robust, modular tools able to clean, inspect and repair a variety of pipes, piles, caissons, risers, cables, chains and deepwater flexible risers. They can also inspect electric cables from renewable Energy floating wind towers. Because the tools are modular, many different tasks can be performed without making major changes. They can also be operated from an ROV should this be required.

Learn More About Rototech: www.rototech.sg



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Anti-Aging Solutions Extend the Life of Oil & Gas Infrastructure Safely and Efficiently

While the context is very different, the challenge is not unfamiliar—much like anti-aging strategies, the focus is not on stopping time, but on managing its effects and extending performance.

Yet across many oil and gas facilities worldwide, pipelines, tanks, refineries and industrial plants are operating beyond their original design life, becoming increasingly exposed to risk as they age. For asset integrity and maintenance teams, the role is not just about maintenance – it is about planning and strategic investment in technologies that keep these essential assets running safely and reliably for decades to come.

Recent global events reinforce just how important this challenge has become: the world cannot afford the failure of its energy infrastructure.

Operators know the consequence of failure. Unplanned downtime at oil and gas facilities can exceed \$500,000 per hour, while a single major pipeline failure can disrupt supply chains and cost billions. Long-term reliability depends on selecting technologies that perform under real operating conditions, allow assets to remain in service, and address degradation mechanisms before they compromise integrity.

FORWARD THINKING

Reactive maintenance has to become a thing of the past, we need to look at our infrastructure as a complete system instead of individual parts. Operators need confidence that their assets will perform not just today, but decades into the future. Achieving this means preventing corrosion

before it starts, sealing leaks quickly when they occur and reinforcing structures to safely extend service life. It also means reducing complexity by aligning solutions across the asset lifecycle – from Capex through to Opex – rather than managing multiple disconnected providers.

The Infrastructure Protection and Repair platform within Henkel is designed to support this integrated approach. Founded in 1876, Henkel is a global leader with a strong commitment to innovation, sustainability and customer centric solutions. The platform brings together the capabilities of Seal For Life Industries, CSNRI and LOCTITE, each offering technologies that support infrastructure protection across the entire value chain – upstream, midstream and downstream.

WHAT DOES THIS MEAN IN PRACTICE FOR OPERATORS?

Working with a single provider means fewer contact points and allows solutions to be integrated where suitable, reducing unnecessary work and avoiding delays in operations. These brands also bring along with them an extensive track record with decades of field experience.

Planned correctly, this integrated approach reduces downtime, lowers total cost of ownership while keeping people, assets and the environment safe.

CASE IN POINT: MASCOAT

A terminal operator needed to keep a volatile product close to ambient temperature while protecting tank roofs from corrosion. Solar



Keeping critical infrastructure operational as it continues to age is one of the key challenges facing the oil and gas industry today



heat gain was raising internal temperatures, while complex geometry and foot traffic made traditional insulation impractical. Mascoat DTI, a spray applied insulating coating, provided a seamless solution that eliminated corrosion under insulation risk. Applied at just 40 mils, it reduced solar loading and is now a standard specification across the terminal.

CASE IN POINT: CSNRI

An inspection of a 36-inch natural gas pipeline in the USA identified corrosion and pitting at a girth weld. As the line had to remain in service, a hot work repair was required. CSNRI recommended the Atlas carbon fibre composite repair system to restore the pipeline to maximum operating pressure without shutdown. Installation took approximately 2.5 hours, with full cure achieved within eight hours, safely returning the pipeline to service without disruption.

CASE IN POINT: STOPAQ

A recently constructed LNG terminal had seen premature coating failure on the piles of the jetty, the existing coatings were flaking off and the client was looking for an easy to install corrosion preventative system that could be applied while terminal operations

continued. With minimum surface preparation and no mixing or curing time required between layers, the application of the STOPAQ WSH system was immediate and compatible with application both above and below water. Long term protection complete.

LOOKING AHEAD

Infrastructure continues to age and operating conditions will always be demanding, meaning smarter future strategies are critical. The examples highlighted here show that long-term performance is not achieved through reactive fixes, but through technologies designed to perform under real world conditions from day one. Rather than replacing assets, a more sustainable approach focuses on repair and reinforcement, extending service life so that materials can remain in use for longer, reducing the demand for new resources.

By combining proven solutions, deep expertise and a lifecycle approach to protection and repair, Henkel helps operators move from short term maintenance to long term confidence – ensuring they remain safe, reliable and operational long into the future, for the good of generations to come.

Much like the search for anti-aging solutions in the consumer world, time cannot be stopped. The risks can be mitigated, allowing infrastructure to continue performing well beyond its original design life.





Heavy-Duty Robotics Transform Industrial Safety and Reliability at ADNOC

ADNOC has successfully deployed Taurob's heavy-duty inspector robot at its Taweelah Gas Compression Plant, where it will conduct routine inspections in hazardous environments without putting people at risk.

The Taurob heavy-duty robot is now conducting on-site autonomous inspections as the first set of 'eyes' on the ground, enabling ADNOC's engineers to identify potential gas leaks, unusual hotspots and other hazards to enhance safety. Built for extreme industrial environments, the robot is fitted with a wide range of advanced sensors including 3D LiDAR (Light Detection and Ranging) technology and thermal cameras with 360-degree visibility.

ADNOC has also announced plans to further expand its robotics program by co-developing the industry's first heavy-duty 'operator' robot – a robot that can not only 'see' like Taurob's inspector robot but lift and grip industrial equipment. Developed under the ARGOS Joint Industry Project alongside Equinor, the Net Zero Technology Centro, Petrobras, TotalEnergies, Saft and Taurob, the heavy-duty operator robot will be able to work in temperatures ranging from -20°C to 60°C. It will be strong enough to lift heavy equipment and precise enough to turn valves and operate gauges, tasks that would normally require people to

enter high-risk areas. The robot can be operated remotely or carry out tasks autonomously, allowing maintenance and intervention work to be completed safely. It is due to be operational by the end of 2026.

Dena Almansoori, ADNOC's Group Chief Technology and Innovation Officer: "Artificial and Physical Intelligence are core to ADNOC's long term energy strategy, transforming how we operate across the value chain. At Taweelah, autonomous advanced robots are already deployed in live operations as we continue to develop the next generation of industrial robotics. This is innovation with purpose, enhancing safety, reducing emissions, improving performance and supporting the UAE's AI Strategy 2031 and Robotics & Automation agenda."

These milestones support ADNOC's broader Advanced Technology, AI, Robotics and HSE strategies, combining AI enabled oversight with robotics to reduce risk exposure and strengthen safe, reliable operations.

ADNOC's tools such as HSE Cockpit.ai, which has reduced safety incidents by 30%, provide real time visibility to help prevent incidents before they occur, while robots and drones carry out hazardous inspections, emissions monitoring and incident response across land, sea and air, including use cases such as red zone and confined space operations. Together, these capabilities embed safety into day to day execution and continue to expand the value ADNOC is delivering through advanced robotics and AI at scale.



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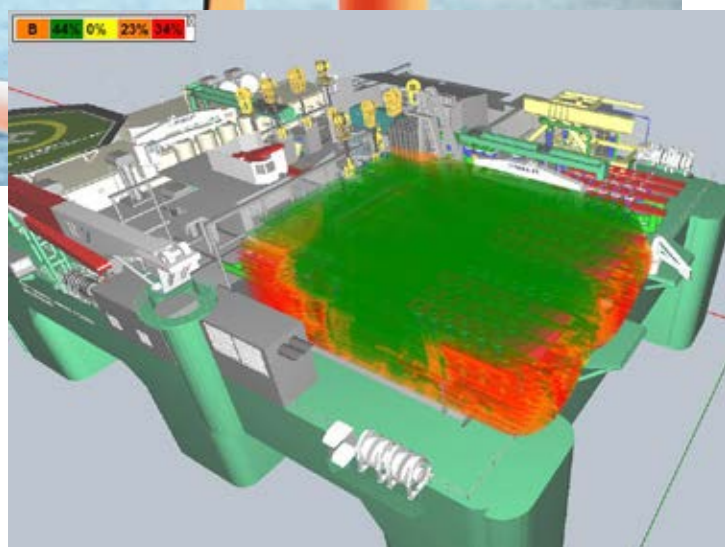




How Extended Detection Range Is Reshaping Fire & Gas Detection Layouts



Fire and gas system design has always been bounded by one quiet assumption: how far each flame detector can reliably see. For most of the past two decades, certified detection range for IR3 flame detectors has sat at 30m in standard sensitivity and 60m in high sensitivity





Those numbers have shaped every fire and gas layout drawing produced for oil and gas, petrochemical, and LNG facilities in that time. With certified detection range now extending to 160m, the obvious question is what that actually changes in practice, and just as importantly, what it does not.

ASSESSING THE CHANGES

Credible fire and gas mapping is not a matter of dividing the plant area by the detector coverage cone. A properly graded assessment works from the detector's effective viewing distance, denoted D, which is derived from the certified test distance to a one square foot n-heptane reference fire and adjusted for desensitising factors such as false alarm stimuli and optics contamination. Performance requirements are expressed as multiples of D. A typical blanket-graded hydrocarbon risk area specifies alarm coverage of every point by at least one detector within 1D, and voted control coverage of every point by at least two detectors within 2D. The 1D requirement catches the reference-size fire at the design range. The 2D requirement, twice that distance, reflects the inverse square law (a larger, more developed fire is visible from further away) and the need for voted redundancy before automatic control actions such as emergency shutdown or deluge release will initiate. Combined with cone-of-vision geometry, line-of-sight obstructions, and detector failure tolerance, this is what drives detector count on any real layout.

MODELLING THE RESULTS

To quantify the effect in a realistic setting, an onshore plant area of 160m by 75m, 12,000sqm in total, was modelled using HazMap3D with a standard hydrocarbon risk basis. The area was assessed three times against the same blanket-graded coverage requirement, with the only variable being the detector's effective viewing distance. The detector, the voting logic, the grade, and the 3D site geometry were held constant across the three scenarios.

At the standard 30m setting, the assessment required 21 flame detectors to satisfy both the 1D alarm coverage at 30m and the 2D voted control coverage at 60m. Stepping up to 60m high sensitivity mode reduced that figure to 10 detectors, a 52% reduction. Applying the 160m range profile brought the count down to 6 detectors, a 71%

reduction against the standard configuration and a 40% reduction against the high sensitivity layout. On a site of this scale, that is a meaningful efficiency gain, but the numbers also tell a more nuanced story than a simple range-squared relationship would suggest.

The interesting observation is what happens between 60m and 160m. Coverage cone area scales with the square of range, so in theory a 160m detector covers roughly seven times the area of a 60m unit. If detector count reduced in proportion, the 160m layout would fall to one or two detectors. It does not. On a bounded site of finite dimensions, detection range stops being the limiting factor once D exceeds the longest diagonal from any candidate mounting position. At 160m, a single well-positioned detector can satisfy the 1D alarm requirement across the entire 160m by 75m plant, and the 2D voted control requirement at 320m is trivially met. But the design still needs multiple detectors to satisfy voting redundancy, to close out corners and obstructed volumes, and to tolerate the failure of any single unit. Once range exceeds the site envelope, the binding constraints shift from viewing distance to voting logic, cone-of-vision geometry, and redundancy. The reduction curve flattens accordingly.

EVALUATING THE DESIGN IMPLICATIONS

For a fire and gas engineer, the practical consequences are clear. Extended range delivers its greatest benefit on larger open-area sites where range sets the detector count. On smaller or heavily compartmentalised areas, the gains are more modest, because voting and line-of-sight constraints become binding well before range does. The design implication is that detection range should

be selected zone by zone rather than applied uniformly across a facility. Even so, a 40% reduction over high sensitivity mode translates into fewer cable runs, fewer junction boxes, reduced inspection and maintenance burden, and lower through-life operating cost. On brownfield sites where IR3 detectors are already installed, a firmware upgrade path enables extended range without any hardware replacement, and an updated 3D mapping assessment can identify detectors that may be deactivated or repositioned while maintaining the original safety case.

Extended detection range is not a licence to strip out detectors indiscriminately. It is an additional tool in the fire and gas designer's kit that, applied to the right geometries, delivers measurable reductions in installed and operating cost without compromising the safety integrity basis. The numbers, drawn from a realistic site assessment rather than a marketing abstraction, make the case on their own.





Oil & Gas Thailand (OGET) 2026 Returns as Thailand's Premier Oil, Gas and Petrochemical Technology Exhibition

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Thailand's oil, gas and petrochemical industries are evolving rapidly, driven by growing demand for energy security, operational efficiency, digital transformation and lower-carbon technologies. As investments in industrial modernization continue to grow, **Oil & Gas Thailand (OGET) 2026** returns for its **15th edition** as Thailand's leading specialized exhibition for the oil, gas and petrochemical sectors.

Taking place from **14-16 October 2026 at BITEC, Bangkok**, OGET 2026 will bring together technology providers, equipment manufacturers, engineering companies, EPC contractors, service providers and industry professionals from the upstream, midstream and downstream sectors. The exhibition provides an ideal venue for business networking, technology sourcing and knowledge sharing while presenting the latest innovations shaping the future of the energy industry.

Covering more than 6,000 square metres of exhibition space, OGET 2026 will showcase advanced products, equipment and engineering solutions across process technology, automation, instrumentation, pumps

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Alongside the exhibition, visitors can also attend two dedicated conference programmes.

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Supported by the **Ministry of Energy**, together with leading regional organizations including the **Myanmar Oil and Gas Services Society (MOGSS)** and the **Malaysian Oil, Gas & Energy Services Council (MOGSC)**, OGET 2026 continues to strengthen its position as one of the region's leading platforms for technology exchange, business networking and industry collaboration.



Leading energy companies, including **PTT Public Company Limited** and Bangchak Corporation Public Company Limited, are among the key participants supporting OGET 2026. Their participation reflects the exhibition's strong connection with Thailand's energy sector and its role in bringing together key decision-makers from across the industry.

Building on the success of previous editions, OGET has become Thailand's only specialized exhibition dedicated exclusively to the oil, gas and petrochemical industries. The **2025 edition** welcomed **6,800 trade visitors**, featured **500 exhibiting companies**, **285 exhibition booths**, **50 conference speakers**, and attracted professionals from **56 countries**, reflecting the event's growing international recognition and importance to the regional energy industry.

As the energy industry continues to evolve, **Oil & Gas Thailand (OGET) 2026** offers an ideal opportunity to discover new technologies, build strategic partnerships and stay updated on the latest trends shaping the future of the oil, gas and petrochemical sectors.

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