

تحت رعاية صاحب السمو الشيخ محمد بن زايد آل نهيان، رئيس دولة الامارات العربية المتحدة

Under the patronage of His Highness Sheikh Mohamed bin Zayed Al Nahyan, President of the United Arab Emirates



Host



2-5 November 2026, Abu Dhabi, UAE

ADIPEC RESILIENCE GUIDE

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ADIPEC is returning for its 42nd edition this year at a time when the industry is navigating rising demand and shifting supply dynamics in an increasingly interconnected global economy.

Bringing together policymakers, industry leaders, innovators and investors, ADIPEC 2026 provides a vital platform for dialogue, collaboration and action. It serves as a meeting point for ideas, technologies and partnerships that will shape the future of energy. Central to ADIPEC this year is a defining question: how do we meet rising energy demand while sustaining economic growth in a more volatile, competitive, and technology-driven world?

Energy security today equates to economic stability more than ever, with resilience fundamental to both. The ADIPEC Resilience Guide is your handbook for an era of industry change.

Your companion to the world's largest energy event, the Guide gathers insight, offers solutions, and explores many of the compelling innovations reshaping the next generation energy systems.

What the ADIPEC Resilience Guide delivers:

- **The pathway to resilience:** The opening sections of the Guide feature exclusive global thought leadership and carefully curated analysis focused on three essential pillars: strengthening energy security, building and delivering energy systems at scale, and sustaining long-term growth.
- **Show floor innovations for new energy horizons:** Take a detailed look at the game-changing solutions, services, and technologies from our valued sponsors and exhibitors who are helping build more resilient energy systems from the ADIPEC exhibition halls this edition.
- **Route to action:** The ADIPEC Resilience Guide is your insider's roadmap to ADIPEC 2026, spotlighting the key experiences, as the event facilitates the essential dialogue, ideas and actions that will help shape the energy system the world needs, now and in the future.

As the industry gathers to chart its course through a period of profound change, the pages ahead offer a window into the thinking, innovation and collaboration driving its future.

■ Introduction

ADIPEC Resilience Guide 2026: Securing energy in an era of change

Contents



04
Building the energy system the world needs next



08
Strengthening the systems that power global growth



10
More space. More opportunities. More ways to connect.



24
Market Outlook: Integration will define the next era of energy

198
Floor Plan

200
Products & Solutions Guide



14 ADIPEC GLOBAL ENERGY REPORT 2026: POWER SHIFT

- The system proved more resilient than expected
- AI reshapes demand and influence
- The centre of gravity is shifting east
- A broader role for the Middle East



44 Section 3: TECHNOLOGY AND AI

- AI's growing appetite for energy and its power to deliver
- Thought Leadership
AIQ
Aveva
Accenture



18

Section 1: RESILIENCE, SECURITY & GROWTH

- Energy security is the foundation of lasting prosperity
- Thought Leadership
Microsoft
KNOC
Halliburton



32

Section 2: CAPITAL, PARTNERSHIP & DELIVERY

- Securing energy supply in an increasingly uncertain world
- Thought Leadership
Samsung
EnBW AG
Weatherford International



56

Section 4: RESILIENT INFRASTRUCTURE

- The nuts and bolts of a secure energy system
- Thought Leadership
Vitol
Borouge International
Global Impact Coalition



68

Section 5: SOLUTIONS POWERING RESILIENCE & GROWTH

Explore a selection of intelligence solutions and innovations from global sponsors and exhibitors

Building the energy system the world needs next

Ahead of ADIPEC 2026, **ADIPEC Chair Abdulmunim Saif Al Kindy** discusses the investments, technologies and partnerships needed to build a more resilient, intelligent and integrated global energy system

Thousands of leaders from across energy, technology, investment and government prepare to gather in Abu Dhabi after a year that is testing the global energy system in ways few could have anticipated.

2026 has provided a powerful reminder of something fundamental: energy security and economic stability are inseparable. When energy flows are disrupted, the effects travel quickly: through supply chains, industries, transport networks, prices and ultimately people's everyday lives.

But this year has taught us something else: energy security is not simply a question of how much energy the world can produce. It is about how the entire system continues to deliver when it is under pressure.

“Resilience cannot be improvised when a crisis arrives. It has to be designed, invested in and built over time.”

Production matters. But so do processing, infrastructure, storage, logistics and supply routes. So do strong institutions, diverse sources, skilled people and trusted partnerships. And so does the intelligence embedded

across the system, using advanced technology and AI to anticipate disruption, improve decisions and respond faster. Resilience cannot be improvised when a crisis arrives. It has to be designed, invested in and built over time.

Building strength through investment

At ADNOC, that's exactly what we have been doing for decades. We have invested ahead of demand to expand production capacity and sources, connected our businesses across an integrated energy value chain, and built infrastructure and a portfolio that provides greater flexibility in how we produce, process and deliver energy.

We have also invested in the capabilities behind that physical infrastructure. Deploying advanced technologies and creating platforms like Panorama, our digital command centre launched in 2017 and spanning the entire ADNOC Group, have helped provide instant access to data and improve performance. Through programmes like ADNOC Future Leaders, we have developed the next generation of talent and equipped them to navigate an increasingly complex world. And through In-Country Value, we have strengthened domestic supply chains, manufacturing capability and economic resilience, reinforcing the connection between a strong energy system and a strong economy.

The experience of 2026 has proven the value of those investments and reinforced the value of building



**Abdulmunim
Saif Al Kindy**
ADIPEC Chair

resilience before it is needed. That lesson matters because the pressures on the energy system are not receding. Global energy demand continues to grow as populations expand, economies industrialise and prosperity rises. Electrification is accelerating. AI, and the infrastructure that supports it, are creating significant new sources of demand. At the same time, geopolitical volatility is increasing, disruption is becoming more frequent, and the system itself is becoming more interconnected and complex.

“ADIPEC creates a place where different experiences can come together, where deals are done, and where the lessons of an extraordinary year can inform the investments, technologies, partnerships and decisions that will shape the years ahead.”

From dialogue to delivery

The task before us at ADIPEC in November is not simply to diagnose these challenges or recover from the disruptions of this year. It is to advance a more

resilient, intelligent and integrated energy system capable of supporting economic progress, technological advancement and growing prosperity in the decades ahead. And to turn those conversations towards practical answers. That requires us to think differently about both growth and resilience.

We need continued investment in energy supply, and across all sources, as well as in the infrastructure that connects supply with demand. We need greater flexibility and redundancy across energy value chains. We need technology that makes systems more intelligent and adaptive. And we need partnerships that endure not only when conditions are favourable, but when they are tested. That is why ADIPEC matters. From 2–5 November in Abu Dhabi, producers will connect with customers. Governments with investors. Energy companies with technology leaders. Established markets with the economies where the next wave of demand will emerge.

ADIPEC creates a place where different experiences can come together, where deals are done, and where the lessons of an extraordinary year can inform the investments, technologies, partnerships and decisions that will shape the years ahead. For those travelling to Abu Dhabi, my invitation is simple: come ready to engage. Bring the lessons of this year. Bring the challenges your organisations are trying to solve. Bring ideas that can be tested, partnerships that can be formed and decisions that can move from discussion to delivery.

Building resilience. Delivering the energy the world needs.

The world needs more energy. More energy to power economies, support industrial growth, enable technological progress and improve the lives of billions of people.

Global energy demand continues to grow, driven by population growth, urbanisation, rising living standards and the rapid expansion of artificial intelligence and data centres.

By 2050, the world's population is expected to approach 9.7 billion, with emerging economies accounting for more than 80% of future energy demand growth.

The challenge is not whether the world needs more energy, but how we mobilise the investment, infrastructure, technology and partnerships required to deliver it securely, affordably and at scale.

Geopolitical shifts, disruptions to global trade and complex supply chains have reinforced the connection between energy security and economic stability.

Building more resilient energy systems requires investment across the entire value chain, from production to

power generation, transmission and distribution. It requires a balanced energy mix, with oil, natural gas, LNG, renewables and nuclear all contributing, supported by storage, lower-carbon technologies, modern infrastructure and integrated energy systems.

Artificial intelligence and digitalisation are transforming productivity and efficiency while creating significant new electricity demand. Meeting this demand requires closer coordination between energy producers, utilities, technology companies, governments and investors.

From 2–5 November, Abu Dhabi welcomes more than 239,000 attendees, with 2,250 exhibiting companies and 30 country pavilions presenting technologies and expertise from across the energy value chain. ADIPEC provides the scale and international reach to advance investment, strengthen partnerships and accelerate the deployment of technologies that expand supply, improve efficiency and modernise infrastructure.

The ADIPEC Resilience Guide explores the strategies, innovations and solutions shaping more secure,



Christopher Hudson
President - dmg events

competitive and resilient energy systems. Combining global thought leadership and practical analysis with technologies from our exhibitors and sponsors, it examines how the industry can strengthen energy security, deliver at scale and sustain long-term growth.

I encourage you to use the Guide to plan your time at ADIPEC, identify the companies and technologies you want to explore and discover the discussions most relevant to your business.

I look forward to welcoming you to Abu Dhabi.

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Under the patronage of His Highness Sheikh Mohamed bin Zayed Al Nahyan, President of the UAE, in his capacity as Ruler of Abu Dhabi



2-5 November 2026
Abu Dhabi, UAE

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How to activate your profile

- STEP 1** Download the ADIPEC Mobile App at www.adipec.com/app
Use your registered email address to create a password and activate your profile
- STEP 2** Update your profile and begin networking. The connections you can make will depend on your badge type

OVERVIEW

Strengthening the systems that power global growth

The future of global growth depends on energy systems that are reliable, intelligent and built for scale. As investment accelerates across infrastructure, technology and new sources of supply, ADIPEC 2026 will explore the solutions and partnerships shaping energy's next era.

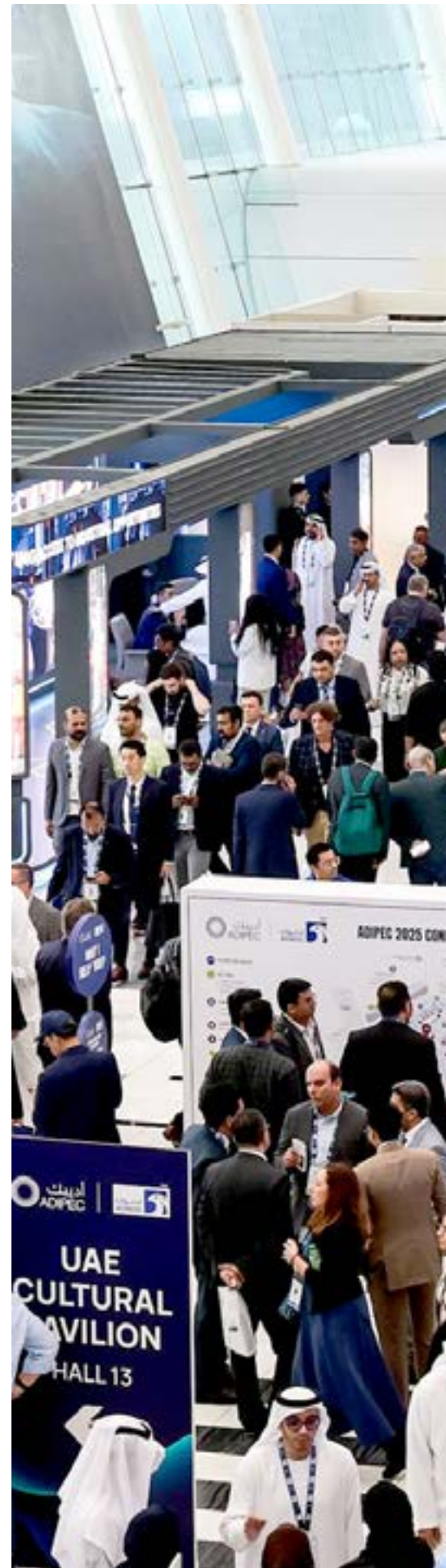
The global energy landscape is undergoing a structural transformation driven by the convergence of economic, geopolitical, and technological forces. As the world enters a new era defined by rising energy demand, geopolitical volatility, infrastructure constraints, and the rapid expansion of artificial intelligence (AI), the direct link between energy security and global economic stability has never been clearer.

To power the next era of global growth and prosperity, the world urgently needs a more resilient energy system – one that is flexible, integrated, and intelligent, built to withstand disruption while continuously expanding capacity for the future. The global imperative facing industry leaders and decision-makers today is twofold: humanity must secure the essential energy supplies the world relies on today, while simultaneously investing in the infrastructure, technology, and capabilities that will sustain economic growth tomorrow.

Energy security is economic stability

ADIPEC 2026 stands as the essential global platform where the energy industry acts on that imperative. As the world's largest energy conference and exhibition, ADIPEC convenes ministers, CEOs, institutional investors, technology pioneers, and industrial customers from across the globe. Drawing on the United Arab Emirates' position as a reliable energy supplier, long-term investment partner, and global hub for technology and industry, ADIPEC provides the platform to turn opportunity into action.

At the heart of ADIPEC 2026 is a defining question for the industry: how do we power growth and prosperity in a more volatile, competitive, and technology-driven world? To answer this, from 2-5 November in Abu Dhabi, ADIPEC 2026 brings together leaders, capital and capability to focus on what the next energy system needs most: growth, reliability, intelligence, and delivery.





Collaboration across governments, industry and investment communities will be critical to building more resilient energy systems.

How will ADIPEC 2026 advance the global energy agenda?

By bringing together policy, capital, technology, and industry, ADIPEC enables global stakeholders to resolve critical supply bottlenecks, de-risk cross-border investments, and accelerate the commercial

partnerships required to keep global energy moving safely, efficiently, and affordably:

- **Mobilising investment in resilient systems:** With global annual energy investment reaching a record US\$3.4 trillion, ADIPEC will be at the centre of mobilising investment in resilient and intelligent energy systems, with confirmed participation from ministers, CEOs and senior leaders across energy, technology, finance and industry.
- **Scaling supply to meet AI-driven demand:** Global electricity demand from data centres and AI workloads is projected to more than double by 2030, reaching around 1,000 TWh compared to 460 TWh in 2024. ADIPEC 2026 will convene the global energy industry in Abu Dhabi as the world enters a new era of rising energy demand, geopolitical volatility, infrastructure constraints and the rapid expansion of artificial intelligence (AI), underscoring the critical importance of scaling energy supply to meet structural demand.
- **Advancing delivery through partnerships:** Across its conferences and exhibition, attendees at ADIPEC 2026 will be able to align priorities, advance commercial partnerships and accelerate the projects and solutions needed to support secure, reliable and affordable energy supplies and long-term growth.

ADIPEC IN NUMBERS

239,000+

Exhibition attendees

2,250+

Exhibiting companies

US\$53b

Generated across
49,131 business deals in 2025

16,500+

Conference delegates

1,800+

Conference speakers

13

Conference programmes

WHAT'S NEW

More space. More opportunities. More ways to connect.

Driven by unprecedented demand from across the global energy ecosystem, ADIPEC 2026 introduces new exhibition features, expanded showcase areas and enhanced networking opportunities designed to help attendees discover new technologies, build partnerships and explore the future of energy.



A NEW STAGE FOR ADIPEC'S OPENING CEREMONY

To accommodate continued growth and record exhibitor demand, the ADIPEC Opening Ceremony will take place at the Abu Dhabi Energy Centre. The move creates additional exhibition capacity within ADNEC, enabling more companies, technologies and country representations to participate in ADIPEC 2026. The invitation-only Opening Ceremony will also be livestreamed free of charge within designated conference areas at ADNEC, allowing all attendees to follow the event's proceedings.



GLOBAL ENERGY CLUB RELOCATED TO THE HEART OF ADIPEC

The Global Energy Club returns as the premier destination for high-level networking, strategic meetings and executive engagement. For 2026, the Club has been relocated to a prominent position beside the main entrance, making it even easier for ministers, policymakers, business leaders and energy executives to connect throughout the event.



YOUNG ADIPEC NEXT-GEN ENERGY: LED BY YOUTH

Relocated to Hall 16, Young ADIPEC returns with an enhanced programme focused on education, innovation and future workforce development. Through hands-on activities, industry engagement and youth-focused initiatives, the platform aims to inspire students and young professionals to explore careers across the energy sector.



NEW INTERNATIONAL PARTICIPATION

Alongside 27 returning country pavilions, three countries join ADIPEC's pavilion programme for the first time in 2026:

- Argentina
- Austria
- Nigeria

Located within the expanded Hall 16 configuration, the new pavilions reflect ADIPEC's growing global footprint and the increasing diversity of investment and technology partnerships. This year's event will also feature its largest-ever Asian presence, together with a number of first-time ministerial and industry leaders joining the programme.



RECOGNISING IMPACT THROUGH THE ADIPEC TECHNICAL EXCELLENCE AWARDS

The ADIPEC Technical Excellence Awards recognise contributions in research and innovation that demonstrate measurable industry impact. This year, the award categories have been expanded to include:

- Downstream Excellence and Innovation
- Young Professional Award
- Resilience Award
- Rising Stars Award (Academia)



NEW DISCUSSION FORMATS & NETWORKING OPPORTUNITIES

Networking Energy Briefings combine focused industry insight, audience interaction and informal networking, helping delegates engage with the sector's most important priorities. The sessions complement the wider Strategic Conference programme and provide opportunities to:

- Gain focused perspectives from ADIPEC Knowledge Partners and industry experts
- Engage directly in audience Q&A and discussion on key industry issues
- Connect with peers, exchange ideas and build valuable new relationships

EXPANDED EXHIBITION EXPERIENCES

AI & ROBOTICS ZONE

Exploring the growing role of artificial intelligence and robotics across the energy sector, featuring advanced technologies, real-world applications and expert-led discussions, as well as AI Leadership Roundtables and the free-to-attend AI Conference.

MARITIME & LOGISTICS ZONE

Providing a dedicated platform for shipping, ports, marine infrastructure and supply chain innovation, the Maritime & Logistics Zone continues to expand its focus on operational efficiency and resilient global trade networks.

DIGITALISATION ZONE

Showcasing the digital technologies transforming the energy industry, with interactive demonstrations, practical applications and real-world use cases that enhance connectivity, efficiency and system performance.

LOW CARBON & CHEMICALS ZONE

Highlighting the technologies, products and solutions supporting industrial decarbonisation, with a growing focus on low-carbon fuels, chemicals and emissions reduction.

WHAT'S NEW

New stages for the industry's biggest conversations

ADIPEC 2026 introduces new discussion formats, expanded theatres and enhanced opportunities for delegates to engage with policymakers, industry leaders and technology innovators.

This year, ADIPEC introduces six **new** conference themes:



ENERGY SECURITY & RESILIENCE

Key focus includes preparedness for external shocks, contingency planning, infrastructure protection and supply chain resilience.



CLEAN POWER, MOLECULES & CARBON MANAGEMENT

The programme looks at the commercial routes for scaling clean power, hydrogen, nuclear and carbon management.



POLICY, REGULATION & GOVERNANCE

The programme examines how policy and regulation can unlock investment and accelerate energy infrastructure delivery.



GRIDS, INFRASTRUCTURE & INDUSTRIAL EXECUTION

Key areas of focus include infrastructure, permitting reforms, procurement strategies and construction models needed for integrated energy systems.



UPSTREAM

This track addresses the strategies, partnerships and technologies that can strengthen asset performance and upstream efficiency.



WORKFORCE & SKILLS

This track addresses the leadership and skills needed for increasingly digital and technology-driven energy systems.

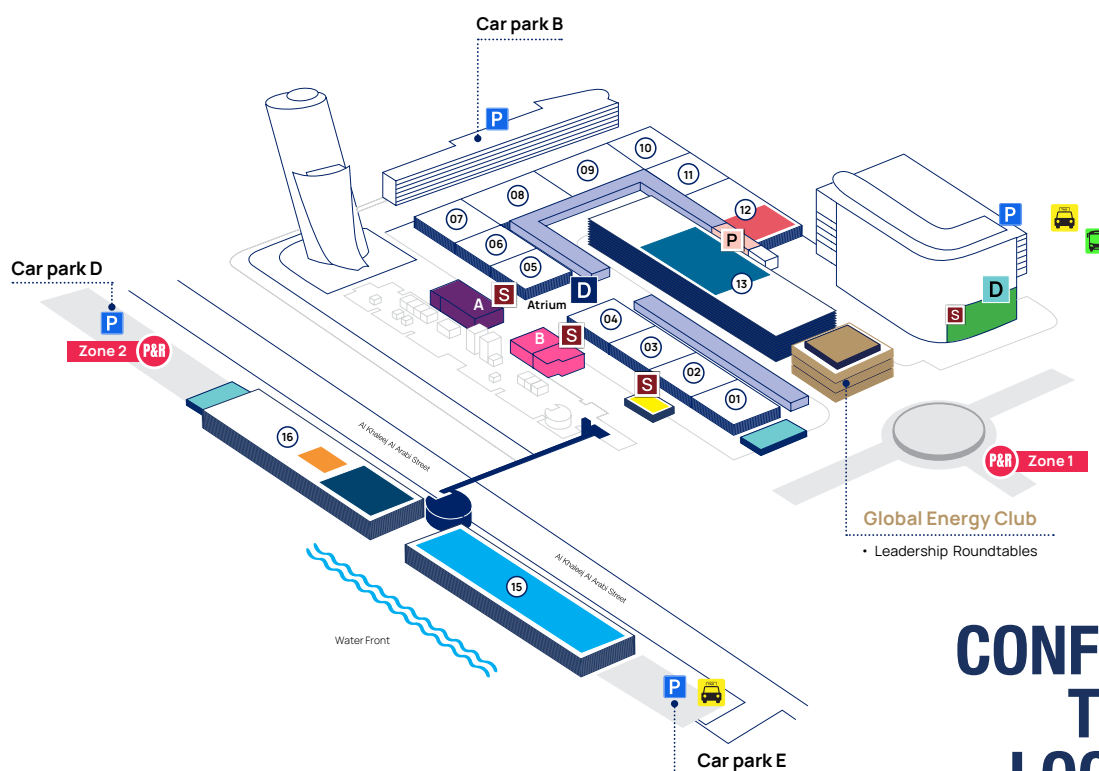
BEYOND THE SIX NEW THEMES

The Strategic Conference also features:

- Ministerial and leadership dialogues
- CEO and executive keynotes
- Global energy market outlooks
- Investment and finance discussions
- Technology and innovation spotlights
- Cross-sector collaboration forums

Alongside the six new themes, these sessions bring together decision-makers from across the global energy ecosystem.





NEW CONFERENCE THEATRE LOCATIONS

CONFERENCE THEATRES

1 EXCHANGE THEATRE

Hosted within Conference Room A, the Exchange Theatre becomes the home of many of ADIPEC's most important strategic discussions, including ministerial panels, global CEO sessions and leadership dialogues.

2 MOMENTUM THEATRE

A new addition to ADIPEC 2026, the Momentum Theatre introduces a fresh environment for conference

discussions and audience engagement, conveniently located close to Hall 2.

3 EXCELLENCE THEATRE

Expanded to meet growing demand, the Excellence Theatre will host a broader programme of curated discussions and technical content throughout the four-day event. Located beside Al Maa'ed Hall, it will also support an enhanced technical panel programme.

4 IMPACT THEATRE

Designed around a central stage

concept, the Impact Theatre creates a more immersive conference experience that brings delegates closer to the conversation and encourages greater interaction between speakers and audiences. Located in Conference Room B.

INNOVATION STAGES

5 AI THEATRE

Located within the AI & Robotics Zone, the theatre will explore the technologies shaping the future of energy, including artificial intelligence, robotics and quantum computing.

6 MARITIME THEATRE

Located within the Maritime & Logistics Zone, the theatre will host sessions covering maritime operations, low-carbon shipping, logistics and supply chain innovation.

Both theatres provide visitors with additional opportunities to access practical industry insights throughout the four-day event.

NEW OPPORTUNITIES TO CONNECT

Alongside conference sessions, ADIPEC 2026 expands opportunities for professional networking through curated meetings, industry briefings and specialist engagement programmes designed to help visitors build valuable connections across the energy ecosystem.

MORE INNOVATION SESSIONS THAN EVER

Beyond the Strategic and Technical Conference programmes, ADIPEC 2026 expands its programme of free-to-attend content through two dedicated innovation theatres.

ADIPEC GLOBAL ENERGY REPORT

Global energy industry demonstrates confidence through uncertainty

Confidence in the global energy industry's future remains strong despite ongoing uncertainty, with 85% of energy insiders saying the sector is more attractive to invest in than five years ago, according to the inaugural ADIPEC Global Energy Report 2026: Power Shift report.

Nearly two-thirds of senior industry leaders, 64%, say the global energy system proved more resilient than expected through recent disruption, while 77% remain optimistic about the decade ahead.

1,832

Senior energy insiders surveyed

78

countries

Source: ADIPEC Global Energy Report 2026.

Drawing on surveys of more than 1,800 senior business and energy leaders, the report points to an industry adapting to disruption rather than retreating from it. It identifies a global energy system becoming more diversified and interconnected, the industry's centre of gravity shifting east towards the Middle East and Asia and the growing impact of artificial intelligence on both energy consumption and industry operations.

The system proved more resilient than expected
Industry leaders believe the energy system has passed

its biggest stress test in 50 years. After two years of disruption, 64% of energy insiders say the global system proved more resilient than expected, including 24% who say much more. Just 13% say less resilient. Unprompted, they describe deliberate adaptation, not luck. The most common reason is that the system adjusted quickly and flexibly to the shocks (19%, rising to 32% in the Middle East). Others cite supply that kept flowing (11%), sources and routes diversified before the shocks came (10%) or, mostly in Asia Pacific, renewables filling the gap.

The experience is also reshaping views of energy security. Energy insiders place investment in diversified energy sources, renewables and protecting critical infrastructure ahead of domestic self-reliance, which ranks last among the nine security priorities tested.

Energy's centre of gravity shifts east

Against this backdrop of resilience and investment confidence, the findings show the industry's centre of gravity shifting eastwards. The Middle East is identified as the region offering the greatest opportunity over the next decade, while 72% expect it to become more important in global energy. Around half of oil and gas producers identify Asia Pacific and the Middle East among their most important customer regions over the next five years, highlighting the growing commercial importance of the Gulf-Asia corridor.

AI reshapes demand and influence

Artificial intelligence is expected not only to create a new source of pressure and opportunity, but also to reshape who holds influence in the energy system.

More than four in five energy insiders expect AI-driven electricity demand to exceed current forecasts, including 32% who expect it to be much higher. At the same time, 71% see AI as more of an opportunity than a risk, while 43% expect technology and AI companies to gain the most influence over global energy during the coming decade, ahead of governments and

No.1

The Middle East ranked number one for opportunity over the next decade by energy executives

64%

Say the system proved more resilient than expected

77%

Optimistic about the energy industry in the decade ahead

93%

Say future demand requires growth across multiple sources

85%

Say energy is more attractive to invest in than five years ago

Source: ADIPEC Global Energy Report 2026.

regulators, financial institutions and traditional energy companies.

From resilience to delivery

The combination of growing demand, strong investment appetite and technological change shifts the challenge for the industry from resilience towards execution.

The research clearly shows broad agreement that future demand will require a diversified response: 93% say meeting future energy demand will require growth across multiple energy sources rather than reliance on one dominant source, the strongest consensus identified in the research.

Infrastructure is emerging as a critical constraint. Delays in building and connecting grids are identified as one of the biggest barriers to meeting future demand after geopolitics, and the research identifies greater grid investment as a priority.

At the same time, 74% expect the Middle East to play a more significant role in building energy infrastructure over the coming decade.

The findings will help frame discussions at ADIPEC 2026, where leaders will examine how to mobilise capital, accelerate infrastructure development and strengthen the partnerships needed to meet rising global demand.

SECURITY NOW MEANS DIVERSIFICATION

Insiders define energy security as more sources and more routes. Every source from renewables and nuclear to oil and gas is expected to matter more over the next decade. Self-sufficiency ranks last among energy security priorities.

CONFIDENCE COEXISTS WITH STRAIN

Three quarters of leaders remain optimistic about the decade while nine in 10 recognise that the system is under pressure. Conflict is the most-cited risk and investment risk has risen for every source, yet 85% say energy is a more attractive sector to invest in than five years ago. Drawing on two surveys of 1,832 senior energy insiders and 17 executive interviews, this report captures how the industry sees the decade ahead.

POWER HAS SHIFTED EAST

Each region ranks its home market first for opportunity over the next decade. The Middle East ranks second in every other region, making it the leading prospect overall. Producers increasingly look to Asia and the Gulf for demand.

DOWNLOAD THE ADIPEC GLOBAL ENERGY REPORT 2026



ADIPEC GLOBAL ENERGY REPORT

The centre of gravity is shifting east

The Middle East is the industry’s clearest consensus growth market, while producers and consumers increasingly organise around the Gulf–Asia corridor.

Respondents in every region rank their home market first for opportunity over the next decade. The Middle East ranks second in every other region and first overall.

72%

expect the Middle East to become more important in global energy over the next decade

Source: ADIPEC Global Energy Report 2026.

Both producers and consumers point to the same corridor. Around half of oil and gas producers name Asia Pacific (49%) and the Middle East (48%) as their most important customer regions over the next five years, far ahead of Europe and North America. Consumers named the same regions as their key suppliers. These findings

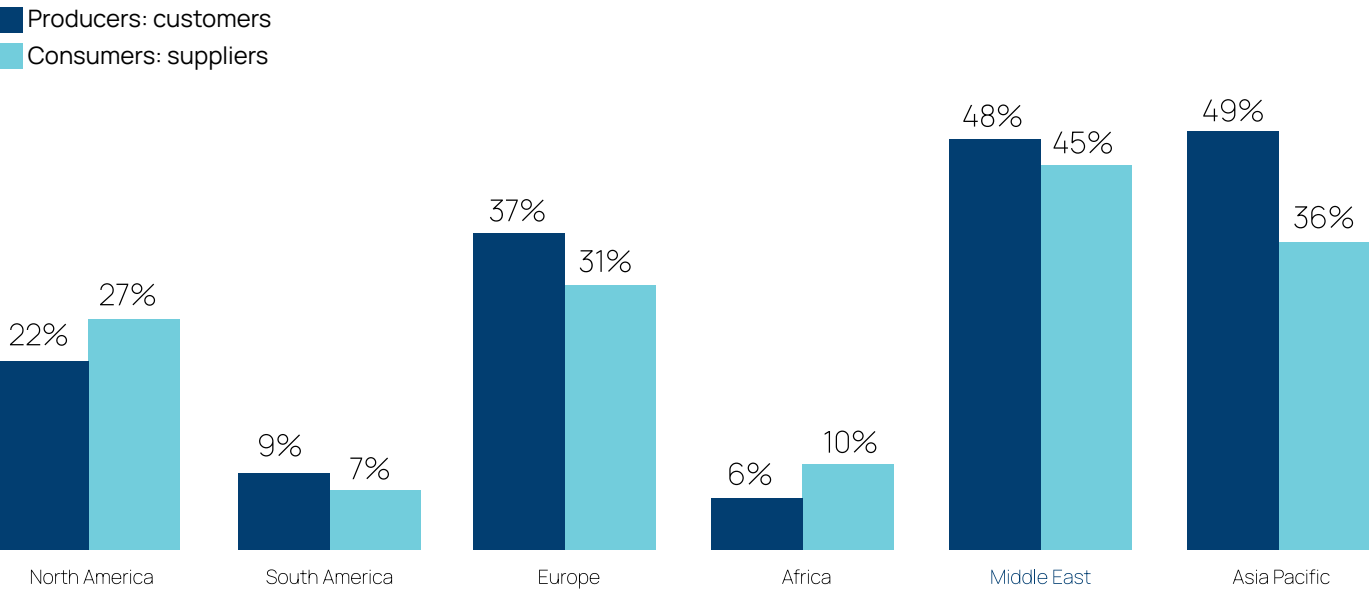
underline the importance of the Gulf–Asia corridor to future energy trade. China alone accounted for 58% of the growth in world electricity demand last year and the IEA expects India’s electricity demand to grow 7% this year.

The Middle East’s influence is expected to grow
72% of energy insiders expect it to become more important over the next decade, compared with just 9% who expect less. The figure for the UAE is similar at 69%, with majorities across all regions and sectors expecting its importance to grow.

The broadest regional confidence
Every region backs its home market first, but every region also identifies the Middle East as a leading opportunity. No other region attracts such broad confidence.

A broader role for the Middle East
Gulf insiders are clear about what that role should be. Becoming a global hub for energy investment and deal-making is the top choice (26%), just ahead of expanding renewable exports, supporting global energy security, developing new energy technologies and supporting the growth of AI. Expanding traditional energy exports comes last, named by one in 10 – a measure of the diversification under way.

Most important regions as customers (producers) and as suppliers (consumers), next five years



Source: ADIPEC Global Energy Report 2026.

One Asia, two energy outlooks

Growth markets are focused on meeting rising demand, while import-dependent economies remain more cautious about resilience and security.

Asia sits at the centre of the industry's growth story. The region already uses 47% of the world's energy supply (Energy Institute), and the IEA expects India and Southeast Asia to be the two largest sources of demand growth to 2035.

Half of oil and gas producers name Asia Pacific as a top customer region. Consumers rank it second among supplier regions. But Asia's reliance on trade also leaves it exposed to disruption. Most of the 110 billion cubic metres of gas that passed through the Strait of Hormuz in 2025 was heading east. More than two-thirds of Asian oil and gas insiders expect trade to become more global, the highest share of any region. They are also

most likely to name conflict as a top risk and least likely to say the system proved more resilient than expected (43% more, 36% less).

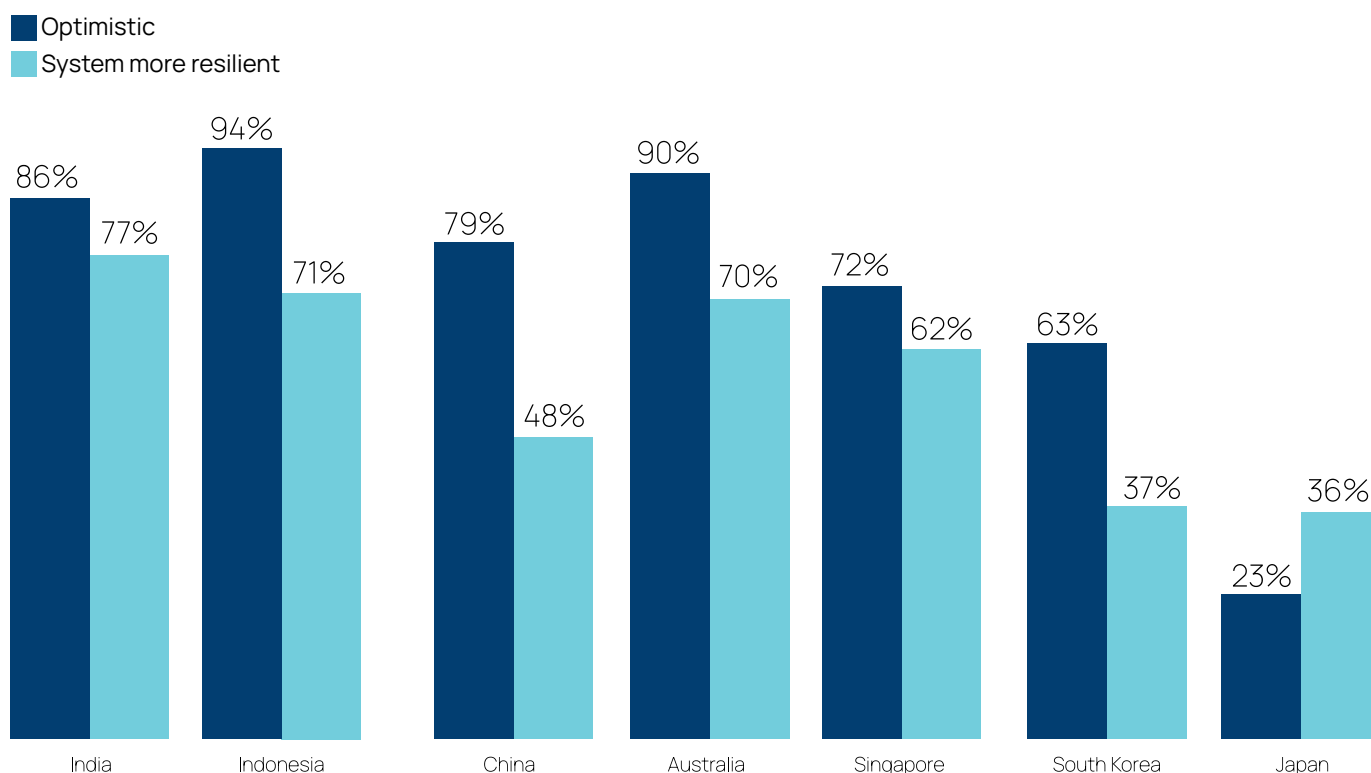
Outlooks vary sharply across Asia

Optimism ranges from 94% in Indonesia and 86% in India to 63% in South Korea and just 23% in Japan. The same divide runs through views on resilience (three-quarters in India say the system proved resilient, barely a third in Japan) and investment (more than nine in 10 in India and Indonesia say energy is a more attractive sector than five years ago, two-thirds in Japan).

One region, different outlooks

Demand-growth is focused on adding supply, building infrastructure and meeting surging demand. Import-dependent Asia is focused on securing supply and strengthening resilience. The challenge is to deliver growth and security at the same time.

Optimism and resilience divide Asia: Share of energy insiders who are optimistic about the next decade and say the system proved more resilient than expected



Energy Insiders Survey, % optimistic about the decade ahead and % saying the system proved more resilient than expected.

Source: ADIPEC Global Energy Report 2026.

DOWNLOAD THE ADIPEC GLOBAL ENERGY REPORT 2026





SECTION 1: RESILIENCE, SECURITY & GROWTH

Energy security is the foundation of lasting prosperity

As rising demand, geopolitical uncertainty and technological change reshape the global energy landscape, diversified supply, resilient infrastructure and smart investment are becoming essential to secure energy flows and sustaining economic growth

The global energy system is entering a new phase in which energy security and economic growth are becoming increasingly inseparable.

Rising electricity demand, shifting patterns of energy trade, geopolitical fragmentation and rapid technological change are exposing the limits of infrastructure designed for a different era.

The strategic challenge is no longer simply to produce enough energy, but to build systems capable of delivering reliable, affordable and flexible supply at the speed and scale required by a growing global economy. This demands a system-wide approach to resilience encompassing diversified supply, interconnected infrastructure, productive assets, and investment frameworks capable of bringing projects online before constraints become crises.



Economies capable of combining dependable energy supply with resilient infrastructure, skilled workforce, secure supply chains and predictable investment conditions will be better placed to attract capital and sustain growth.



The direction of investment already reflects this shift. Global energy investment is projected to reach a record US\$3.4 trillion in 2026, with almost 60% flowing into electricity-related investment.

At the same time, investment in oil and gas remains substantial. This is not an energy system being transformed with simple substitution, but one being built through addition, diversification and integration.



Supply: diversity as a strategic asset

The energy mix is becoming both more diverse and interconnected. Oil and gas, LNG, renewables, nuclear, storage and emerging technologies are expanding in parallel, each serving different roles in security, flexibility, affordability and resilience.

The scale of investment is strategic as much as commercial. More than 330 billion cubic metres per

year of new LNG export capacity is expected to come online between 2025 and 2030 from projects already under construction or having reached final investment decisions, representing the largest wave of LNG capacity additions in the history of the market.

But greater diversity does not automatically mean greater resilience. It can create new dependencies on shipping routes, critical minerals, manufacturing capacity, digital systems, specialised infrastructure and processing facilities. A country may have access to multiple sources of energy but remain vulnerable if those sources depend on the same port, pipeline, transmission corridor or component supplier.

Resilience, therefore, requires optionality: multiple sources, multiple routes and sufficient flexibility to respond when one part of the system comes under pressure.

Infrastructure: the critical connection

This makes infrastructure one of the defining strategic constraints of the next energy system, making it less about the availability of resources than the ability to connect supply with demand.

Electricity provides the clearest example. Global electricity demand is forecast to grow by 3.6% a year between 2026 and 2030, around 50% faster than the average rate of growth over the previous decade. AI and data centres are an important part of this acceleration: global data-centre electricity consumption is projected to more than double from around 415 TWh in 2024 to 945 TWh by 2030.

Yet more than 2,500 GW of renewable, storage and large-load projects are currently stalled in grid connection queues worldwide. Meeting projected electricity demand through 2030 will require annual grid investment to rise by roughly 50% from today's

Digitalisation introduces new vulnerabilities. A power system can be physically robust but digitally exposed, making cybersecurity increasingly part of energy security.

In 2026, global energy investment is projected to reach a record

US\$ 3.4T

Source: International Energy Agency



US\$400 billion. The timing mismatch is significant: data centres can be built in a few years, while major grid projects can take five to 15 years to plan, permit and build. The same principle applies across the broader energy system. Pipelines, LNG terminals, ports, storage, processing facilities, transmission networks and industrial infrastructure determine whether energy can move from resource to market. Equipment, such as transformers, cables and batteries can themselves become bottlenecks.

Infrastructure is therefore no longer simply an enabler of the energy system but a determinant of economic capacity. Countries that can build and connect infrastructure faster will be better positioned to bring new supply online, attract investment and accommodate industrial growth.

Technology as a multiplier

Technology can help close this gap by extracting



greater productivity, flexibility and resilience from existing infrastructure. AI, automation, predictive maintenance and digital twins can enable operators to forecast demand, optimise dispatch, identify equipment failures before they occur, manage increasingly complex energy flows.

AI also creates an important strategic feedback loop: data centres and other digital infrastructure are driving a new wave of electricity demand while AI is simultaneously providing tools to operate power systems more intelligently.

Digitalisation, however, introduces new vulnerabilities. A power system can be physically robust but digitally exposed, making cybersecurity increasingly part of energy security. Resilient systems will therefore need to combine physical redundancy with secure digital architecture.

From energy security to economic growth

Ultimately, resilience is an economic growth issue. Reliable energy enables manufacturing, data centres, transport, industry and critical public services. Unreliable energy systems do the opposite: delay investment, raise costs and weaken competitiveness.

This is why energy and industrial policies are increasingly intertwined. Countries best placed to attract investment will be those that combine reliable energy with secure supply chains, resilient infrastructure, skilled workforce and predictable investment conditions.

The goal is therefore not complete self-sufficiency, but managed interdependence: diversified sources and routes, resilient infrastructure, flexible markets, secure supply chains and the technological capacity to adapt when conditions change.

This is where the energy and economic agendas increasingly converge. The next phase of energy investment will, therefore, be judged not simply by how much capacity is added, but by how effectively that capacity can be connected, managed and deployed.

The countries that power the next era of growth will be those that understand energy security not as an end in itself but as the foundation of economic resilience: securing the energy the world relies on today, while building the infrastructure, technology and industrial capabilities needed to sustain prosperity tomorrow.

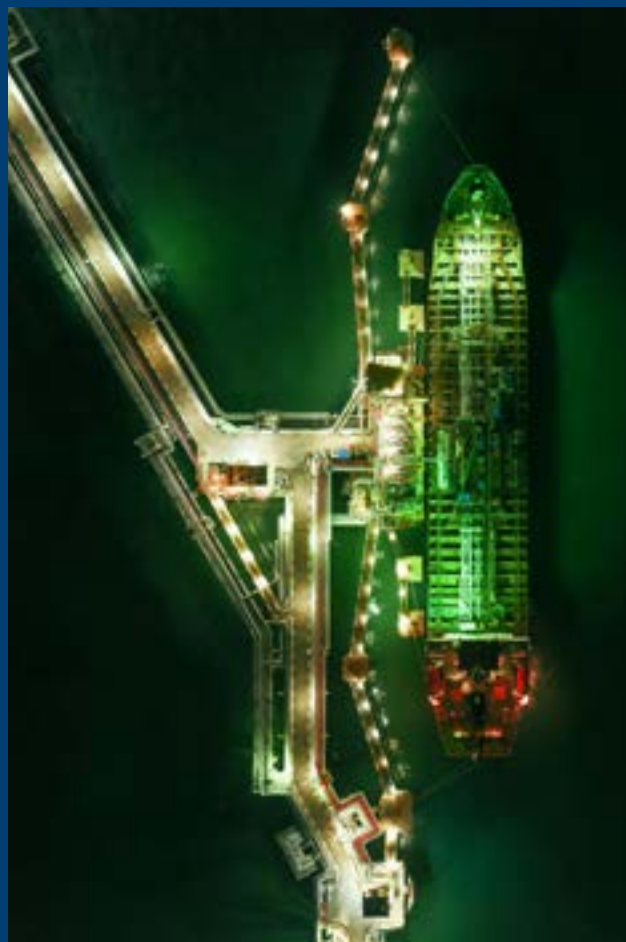
Countries that can build and connect infrastructure faster will be better positioned to bring new supply online, attract investment and accommodate industrial growth.

Global electricity demand is forecast to grow by

3.6%

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Source: International Energy Agency



The next phase of energy investment will therefore be judged not simply by how much capacity is added, but by how effectively that capacity can be connected, managed and deployed.



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MARKET OUTLOOK

Integration will define the next era of energy

Meeting rising global demand will require more than expanding energy supplies. The next challenge lies in connecting infrastructure, investment, technology and policy to build systems capable of delivering reliability, flexibility and long-term growth

The global energy system is entering a period of structural change. Energy security is no longer simply about securing sufficient supplies of oil, gas or electricity. Electrification, industrialisation, artificial intelligence and the expansion of new energy technologies are creating a more interconnected system, where resilience increasingly depends on the ability to generate, transmit, balance and deliver energy reliably.

At the same time, risks are spreading across the system, from supply-chain concentration and critical-mineral dependencies to equipment shortages, grid constraints, and cybersecurity threats. Energy security is therefore

evolving from a question of supply security to one of system-wide resilience. This transition is characterised by addition rather than substitution. Renewables, natural gas, nuclear, storage and emerging technologies will each play different roles in balancing affordability, reliability, energy security, industrial competitiveness and decarbonisation. Integrating these technologies and their supporting infrastructure is becoming as important as developing them.

Demand is exposing the infrastructure gap

Accelerating electricity demand is putting existing infrastructure under pressure. Global data centre



As global energy markets navigate a period of geopolitical uncertainty, economic volatility, and accelerating technological change, the industry is increasingly focused on how to build secure, resilient, and future-ready energy systems.

ADIPEC's Energy Markets and Geopolitics series, published in the run-up to the event, tracked the evolving market impacts of disruption and highlighted the implications for energy security, investment, and long-term growth. Here is a summary of the key findings from the series:

electricity consumption is projected to more than double from around 415 TWh in 2024 to 945 TWh by 2030, while individual hyperscale facilities can require more than 1 GW of power. Yet generation alone cannot meet this challenge. Transmission networks, substations, distribution systems, storage and grid connections often take years to develop, creating a mismatch between rapidly growing demand and infrastructure delivery timelines. Similar challenges are emerging across industrialising economies and renewable energy markets, where available resources and generation projects cannot always be connected to the grid or deliver electricity reliably. Concentrated supply chains and shortages of transformers, cables, batteries, semiconductors and other critical equipment further compound these constraints.

Turning ambition into investable, resilient systems

Closing these gaps requires more than ambitious energy targets. Governments and industry need to create conditions that enable infrastructure, technology and capital to develop at the necessary speed and scale. Policy is becoming an integral part of the investment framework. Competitive procurement, long-term offtake agreements, contracts for difference, streamlined permitting, grid access, guarantees and concessional finance can improve revenue visibility and help distribute risks.

These mechanisms are particularly important for hydrogen, carbon capture, utilisation and storage (CCUS), long-duration energy storage and advanced nuclear technologies, where early commercial projects face multiple risks simultaneously. Markets across the Gulf and beyond demonstrate that there is no single model for mobilising investment. State-backed investment, competitive procurement, fiscal incentives and market-based mechanisms can all attract capital when they provide sufficient investment certainty.

Meanwhile, grids, storage and flexibility must be recognised as strategic infrastructure for resilience rather than simply enablers of decarbonisation. AI illustrates this dual challenge. While it is driving electricity demand, it is also becoming a tool for demand forecasting, grid optimisation, predictive maintenance, and demand response.

The defining challenge of the next phase of the energy system is therefore integration. The leaders in this space will not simply be those with the largest energy resources or the most ambitious technology targets, but those capable of aligning policy, capital, infrastructure, supply chains and technology to build energy systems that are not only larger, but also more flexible, resilient and investable.

THOUGHT LEADERSHIP

Intelligent enterprise: connecting AI from reservoir to market

Hema Prapoo, Global Energy Industry Leader, **Microsoft**, says the next era of AI in oil and gas will not be defined by how many use cases a company deploys - it will be defined by how effectively intelligence connects decisions across the value chain

Oil and gas does not operate as a collection of isolated processes. Reservoir understanding shapes development. Development choices determine production. Production depends on assets, operations, supply chains and people. Each decision affects the next.

AI transformation must follow the same logic. The opportunity is to move beyond applying AI to individual tasks and build connected intelligence across the enterprise. Four capabilities form this operating model: intelligent reserves, intelligent production, intelligent operations, and an intelligent workforce.

Intelligent reserves connect resource understanding to investment decisions

Every oil and gas value chain begins with understanding the resource. Geoscientists, reservoir engineers and development teams work across geological, geophysical, engineering, operational information, often distributed across specialised applications. AI can improve subsurface

processing and predictive analysis, but speed alone is not the goal. The value comes from connecting resource insight to development planning, wells, infrastructure, production expectations and capital allocation. Subsurface intelligence should become the first link in a decision chain that continues throughout the life of the asset.

Intelligent production turns changing conditions into coordinated performance

Once resources move into production, teams must continuously balance asset performance, facility constraints, equipment condition, maintenance requirements, operating cost and changing production conditions. AI can help predict downtime and optimise production. Yet an insight has limited value if it remains inside a model or dashboard. Its value grows when people can understand it, place it in operational context and act through the workflows where production is managed. Better resource understanding informs better plans, while operating intelligence shows how those plans are performing.

Intelligent operations translate asset signals into earlier action

Across fields, pipelines, LNG facilities, refineries and terminals, performance depends on physical assets operating under constantly changing conditions. Real-time anomaly detection and predictive maintenance can support faster detection, better decisions and less

“The objective is not intelligence for its own sake; it is helping people recognise what matters earlier and act with greater confidence.”



Hema Prapoo
Global Energy Industry
Leader
Microsoft

“AI can improve subsurface processing and predictive analysis, but speed alone is not the goal.”

downtime. The opportunity is to connect signals from physical environments with asset history, engineering knowledge, maintenance information and business context. Chevron’s Facilities and Operations of the Future initiative illustrates this direction by connecting local analysis at remote facilities with centralised cloud management. The objective is not intelligence for its own sake; it is helping people recognise what matters earlier and act with greater confidence.

An intelligent workforce scales expertise through the flow of work

Oil and gas businesses depend on specialised expertise across disciplines and locations. Employees also navigate large volumes of procedures, documents and operational data.

AI can make that knowledge easier to find and apply when it is needed. Williams has used Microsoft 365 Copilot and customised agents to automate workflows and surface critical information. Aker BP is using

Microsoft 365 Copilot and Copilot Studio to streamline daily work and create a foundation for scalable automation. These examples point to a broader model: human expertise amplified by AI. People provide judgement, accountability and operating experience. AI can surface information, identify patterns, synthesise knowledge and automate repetitive work.

The strategic imperative is to connect intelligence from insight to action

Priorities will differ across upstream, midstream, downstream and oilfield services. The connective tissue does not. Transformation depends on trusted data, industry context, intelligent workflows, empowered people and secure technology working together.

The next chapter is therefore bigger than deploying more models, copilots or agents. It is about making intelligence part of how the business operates. Intelligent reserves improve development and investment decisions. Intelligent production connects changing conditions to performance. Intelligent operations help teams anticipate issues. An intelligent workforce applies expertise at greater scale. Each capability creates value independently. Connected, they create something more powerful: an intelligent enterprise. That is the opportunity ahead for oil and gas, from subsurface to surface, from field to enterprise, and from insight to action.

THOUGHT LEADERSHIP

Energy security through strategic preparedness and partnership

Amid geopolitical uncertainty and supply chain disruptions, **Korea National Oil Corporation (KNOC)** is strengthening energy security through reserves, operational excellence and international partnerships. President and CEO **Son Joo Suk** explains the company's approach to building resilience

As geopolitical uncertainty and supply chain disruptions continue to challenge the global energy landscape, how is Korea National Oil Corporation, South Korea's state-run oil company, responding?

Korea National Oil Corporation (KNOC) was founded in 1979 to strengthen energy security in the wake of the global petroleum crisis. Since then, KNOC has served as the main organisation responsible for South Korea's national energy security for nearly five decades.

Energy security is no longer simply about securing sufficient volumes of energy. It is increasingly about building systems that can withstand supply disruptions and adapt to rapidly changing conditions. As South Korea relies on imports for more than 95% of its primary energy needs, energy supply resilience has always been a strategic priority.

“Joint safety initiatives between KNOC and its contractors further embed a strong safety culture across its operations.”

KNOC has therefore continued to strengthen the foundations of national oil security by expanding strategic petroleum reserves while also developing international

partnerships with energy-producing nations. KNOC's approach is to integrate physical preparedness with stronger international partnerships, enabling us to respond more effectively and rapidly to potential supply disruptions while contributing to a more resilient global energy system.

Strategic petroleum reserves have traditionally been seen as a physical buffer against oil supply disruptions. How is KNOC expanding its role beyond simply holding emergency stocks?

KNOC's nationwide stockpiling bases and strategic petroleum reserves play a key role in South Korea's energy security system. We operate and manage nine stockpiling bases across the country, with total crude oil and petroleum product storage capacity exceeding 146 million barrels. These facilities provide a critical buffer against global supply disruptions.

International joint stockpiling projects also create new opportunities for international collaboration. By expanding KNOC's joint stockpiling projects with major national oil companies in the Middle East and other partners, KNOC can make more effective use of its storage capacity while building long-term partnerships with oil-producing nations. In this way, maintaining strategic petroleum reserves can contribute to broader energy cooperation across borders.

As energy infrastructure becomes increasingly complex, how does KNOC strengthen the safety and reliability of its stockpiling operations?

Korea National Oil Corporation (KNOC) ensures the safe



Son Joo Suk
CEO
KNOC

and reliable operation of its oil stockpiling facilities through systematic safety management. All nine stockpiling sites have achieved the highest “P” rating in the government’s Process Safety Management (PSM) assessments, which are designed to prevent major industrial accidents. KNOC also continues to strengthen its safety management framework through ISO 45001 certification for its occupational health and safety management system.

Joint safety initiatives between KNOC and its contractors further embed a strong safety culture across its operations. Each stockpiling site conducts regular joint disaster response drills with local fire stations, regional headquarters, and local governments to enhance on-site response capabilities and interagency coordination. KNOC’s disaster response capabilities have been recognised with “Excellent” ratings for three consecutive years in national disaster response evaluations.

Building on these capabilities, KNOC maintains the stable operation of its oil stockpiling facilities and ensures the timely release of strategic oil reserves during energy supply crises, thereby safeguarding national energy security.

As ADIPEC 2026 focuses on building resilient energy systems and transforming opportunity into action, what would be KNOC’s biggest takeaway from this year’s gathering?

For KNOC, ADIPEC is an important platform for connecting energy security with new business opportunities in

technology, investment and international cooperation. We are particularly interested in engaging with global energy companies, technology providers and strategic partners to explore practical solutions that can strengthen the resilience of critical energy infrastructure while improving operational efficiency.

“For KNOC, ADIPEC is an important platform for connecting energy security with new business opportunities in technology, investment and international cooperation.”

We also look forward to exploring opportunities to deepen cooperation with business partners in Abu Dhabi and across the globe. We are open to sharing KNOC’s experience in strategic stockpiling, intelligent infrastructure and AI-driven energy services, while learning about emerging technologies from global leaders at ADIPEC.

We hope to turn these dialogues into more concrete and meaningful partnerships and to seize new opportunities to build more resilient energy systems.

THOUGHT LEADERSHIP

Why digitalisation should be foundational to critical energy infrastructure

Executing a technology at scale requires an ability to carry intelligence throughout asset lifecycle, from reservoir understanding and engineering design to execution in the field, writes **Jeff Miller**, Chairman, President & CEO, **Halliburton**

Technology transforms how the energy industry operates, makes decisions, and delivers value. Today, operators have access to more data, greater computing power, and more advanced analytical capabilities than ever before. But data and analysis alone do not create value. Value comes from informed decisions, effective execution, and measurable results.

At Halliburton, digital is foundational to how we work. We connect data and science, AI, enterprise software, and automation throughout the asset lifecycle. This approach allows customers to improve reservoir contact, optimise production, maximise recovery, and lower total cost of ownership. Our digital approach connects digital technology directly to execution and economic results. We put digital technology to work where it matters: at the reservoir, in the field, and across assets.

The opportunity is scaling execution

The industry's ability to generate data has advanced rapidly. The greater opportunity is converting that data into decisions - with speed and confidence - and carrying those decisions into execution consistently within assets, disciplines, and operating environments. Too often, that progression breaks down. Data exists throughout disconnected systems. Geoscientists, drilling teams, completion engineers, and production specialists work through separate workflows. Data may improve an individual decision or operation, but does not consistently move throughout the asset lifecycle or translate into repeatable

performance. As development programmes become larger and assets more complex, isolated digital successes are not enough. Operators require connected reservoir understanding, engineering decisions, and operational execution throughout development programmes and portfolios. That means delivering the same speed, precision, and performance repeatedly, throughout wells, assets, regions, and operating conditions.

Decision loop: the foundation for smarter, faster decisions

Technology is the foundation of our connected approach. Customers are not looking for additional dashboards, standalone applications, or more reports, rather better ways to achieve their business objectives. Technology brings together trusted data, proven science, industrial-grade AI, and deep domain expertise within workflows where critical decisions are made. Through Halliburton Landmark digital solutions, operators combine subsurface knowledge, engineering disciplines, operational data, and economics within integrated decision systems. This provides a trusted view of the asset and helps teams evaluate alternatives earlier, make faster decisions with greater confidence, and

“Value comes from actionable insights that support daily decision-making rather than existing as a separate analytical activity.”



Jeff Miller
Chairman
President & CEO
Halliburton

execute more consistently. Value comes from actionable insights that support daily decision-making rather than existing as a separate analytical activity. Operators combine data, science, and AI within everyday work to strengthen decision quality and velocity, improve operational execution, and maximise asset performance, reshaping how the industry applies digital technology throughout asset lifecycle.

Where digital meets execution

Automation is where digital intelligence becomes physical action in the field. We close the loop between people and equipment at the surface, technology downhole, and the reservoir itself. Real-time data, AI, and machine learning interpret conditions, inform decisions, and direct equipment to respond with greater precision, consistency, and control.

In drilling, LOGIX™ automation and remote operations portfolio connects the rig, wellbore hydraulics, bottomhole assembly, downhole measurements, and reservoir intelligence. LOGIX Orchestration combined with LOGIX Automated Geosteering evaluates the reservoir, optimises the well path, and directs execution in real time, allowing operators to drill more efficiently, improve well placement, increase reservoir contact, and ultimately recover more from the asset. For fracture stimulation, the ZEUS IQ™ intelligent fracturing platform brings equipment, automation, and subsurface intelligence together in a closed-loop system. Real-time measurements flow into the platform, where AI models interpret fracture response and automatically adjust treatment parameters while pumping. Operators

“Automation is where digital intelligence becomes physical action in the field.”

use ZEUS IQ™ to increase stimulated reservoir volume, improve production potential, direct capital toward higher-value stages, and control asset performance. Halliburton extends this digital automation beyond unconventional basins to offshore stimulation vessels to provide greater real-time visibility and more connected, consistent execution. Together, these technologies connect subsurface understanding, drilling execution, completion performance, and ongoing operational learning into a unified operating environment that improves asset performance.

Execution at scale requires more than individual technologies, connected workflows, or isolated automation. It requires the ability to carry intelligence throughout asset lifecycle, from reservoir understanding and engineering design to execution in the field. Data, science, AI, and automation are embedded in how Halliburton works. Data supports decisions. Those decisions move through workflows and into the field where closed-loop automation supports precise, consistent execution to improve reservoir contact, maximise recovery, and lower total cost of ownership. Real-time results then inform future models, plans, and operations to improve decisions, and ultimately overall asset performance.



SECTION 2: CAPITAL, PARTNERSHIP AND DELIVERY

Securing energy supply in an increasingly uncertain world

Targeted investment in infrastructure, a healthy balance of traditional supply with clean energy transitions, and international cooperation will underpin secure energy flows and human progress

With the global economy increasingly relying on electrification, digitisation and automation to drive growth, energy demand is rising rapidly against a backdrop of geopolitical tensions and uncertainty. The challenge of ensuring energy security is stark. According to projections from the International Energy Agency (IEA), World Bank, financial services institutions, research firms and governments, the global energy consumption in the age of data centres

and AI is expected increase to 3,000 TWh-3,500 TWh in the period 2025-2027.

Yet, at this critical juncture, geopolitical uncertainty stretches from the Black Sea to the Strait of Hormuz, upending established energy pathways, disrupting supply chains, fuelling economic hardship and inflationary pressures. Against this backdrop, mitigating short-term risks while building long-term energy security demands a rethink across four broad



Stronger investment flows, deeper partnerships and greater regulatory alignment would enhance global energy security while potentially easing long-term pricing pressures for producers and consumers alike.

areas, addressing how energy is sourced, transported and stored through pathways that are resilient, safe, and affordable.

Diversifying energy supply

Whether it is molecules, electrons, or, increasingly, both in an interconnected energy system, the global energy community and policymakers need to move away from dependence on single energy sources or regions. This can be achieved through shared goals, investments and partnerships that explore a diverse range of sources, from traditional hydrocarbons such as oil and gas to alternatives including wind, solar, nuclear, and hydrogen. As nations seek to diversify their energy supplies, ensuring these resources reach their points of consumption securely has become a major point of consideration.

Several governments, including those of the US, China, India, Japan and South Korea, alongside the European Union and the UK, are increasing investment in alternative hydrocarbon transport routes and electricity interconnectors. Major energy exporters, including the United Arab Emirates, Saudi Arabia



and Qatar, are also proactively investing in improving supply routes to reduce vulnerabilities associated with chokepoints such as the Strait of Hormuz.

Bolstering strategic reserves and transparency

Strengthening supply lines is closely linked to building hydrocarbon stockpiles and expanding battery storage capacity. Traditional approaches to strategic reserves become particularly important during periods of market stress. Examples include the US Strategic Petroleum Reserve, EU requirements for member states to maintain oil stocks equivalent to at least 90 days of net imports, and coordinated emergency releases designed to ease pricing pressures.

China and India, meanwhile, are expanding their approaches by investing in hydrocarbon stockpiles alongside increased battery storage capacity. Many emerging markets are studying and, in some cases, replicating these investments, albeit at their own pace. Meanwhile, major exporters such as the UAE and Saudi Arabia are also looking to increase oil storage capacity closer to high-demand markets in East and Southeast Asia.

Beyond effective storage and stockpiling, the next priority is fostering transparency and dialogue among international partners to support competitive energy markets and prevent severe price shocks. While frameworks involving the G7, EU, OECD and IEA exist to facilitate such cooperation, they are often focused on crude oil and petroleum products. They are not sufficiently comprehensive to address the requirements of an evolving energy mix.

Critical minerals and metals such as copper, lithium, cobalt and rare earth elements, which are increasingly sought after by an electrifying global economy, also remain subject to geopolitical tensions. This needs to change.

Building resilient infrastructure

Strengthening infrastructure resilience, supported by secure supplies and international storage buffers, represents another critical investment priority for global energy security. This includes capital investment in grid modernisation, cross-border interconnectors, domestic distribution networks and flexible assets linked to energy storage. Such investments can help balance peaks in supply and demand while

The global energy community and policymakers need to move away from dependence on single energy sources or regions.

More than

**US\$2
trillion**

Global investment in clean energy in 2025, more than double spending on fossil fuels.

Source: International Energy Agency



accommodating variable and intermittent renewable energy sources, such as wind power.

Given the growing range of threats to critical infrastructure, protecting energy assets has also become a major priority. Effective policies, communication systems and capital investment are needed to safeguard infrastructure against physical sabotage and cyberattacks. Digital and physical monitoring systems, alongside mitigation measures for extreme weather events, also need to be strengthened as climate-related disruptions become more frequent.

Improving efficiency and managing demand

Phrases such as ‘burn less, produce more’ and ‘achieve more with less’ are increasingly gaining traction across the energy sector. For industrial solutions providers, project sponsors and energy companies alike, the priority is improving throughput and efficiency, even as performance expectations continue to evolve.

Innovation is also reshaping industry discussions, with growing emphasis on identifying which emerging energy technologies can be accelerated and scaled



up in the shortest possible time and at the most competitive cost.

On the consumption side, the focus is on investing in structural energy-saving measures across heavy industry, transport and workplaces to reduce overall demand — one home, factory, town, district and nation at a time. A gradual transition from fossil fuel-based systems to alternative fuels, enabled by electrification technologies such as heat pumps and electric vehicles, is also an important part of the investment equation. So, too, is the circular economy. Although still developing and requiring considerable investment, it offers pathways for improving resource efficiency, including generating energy from waste and recycling plastics, glass and metals.

Finance, collaboration and regulatory alignment

Identifying priorities is one thing but translating them into action is another. While there are encouraging signs, significantly more investment is needed across both traditional and renewable energy. After years of declining investment, particularly during the Covid-19 pandemic, funding is returning to traditional energy, especially natural gas projects. However, many believe investment needs to increase substantially to avoid future price shocks, given expectations that hydrocarbons will continue to play a major role in the global energy mix for decades.

By contrast, investment in renewables and other clean energy technologies has accelerated. In 2025, spending on clean energy was more than double that on fossil fuels, accounting for over US\$2 trillion of approximately US\$3 trillion in total energy investment,

according to figures from the IEA. However, regulatory differences and political priorities vary considerably across regions, creating disparities in project bankability and complicating financing decisions. These variations, often influenced by changing political circumstances, need to be addressed. Even the net-zero emissions targets of major economies are separated by decades rather than years. For example, the EU aims to achieve net zero by 2050, while China and India have set targets for 2060 and 2070, respectively.

The UAE offers a pragmatic approach, pursuing net zero by 2050 while maintaining that investment across all forms of energy is necessary to ensure global energy security. Such differences highlight the importance of regulatory alignment and international cooperation. Greater consensus on policy priorities could help establish a more predictable investment environment.

Mainstream funding and project finance for traditional energy, public-private partnership models for strategic projects, and blended finance for clean technologies could all benefit from clearer, more collaborative and consistent policy frameworks. Blended finance, which combines public, philanthropic and private capital to reduce investment risks, could be particularly valuable in mobilising funding for emerging technologies and projects that might otherwise struggle to attract commercial investment. Ultimately, stronger investment flows, deeper partnerships and greater regulatory alignment would enhance global energy security while potentially easing long-term pricing pressures for producers and consumers alike.

3,500 TWh

Projected increase in global electricity
consumption over 2025–2027

Source: International Energy Agency



Strengthening supply lines is closely linked to building hydrocarbon stockpiles and expanding battery storage capacity.



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THOUGHT LEADERSHIP

How innovation and a growing portfolio are meeting energy's emerging opportunities

Hong Namkoong, President & CEO, **SAMSUNG E&A**, talks about his company's milestones and why the organisation is ready for the energy industry's evolution

From SAMSUNG E&A's perspective, what are the most exciting opportunities emerging across the global energy sector, and how can industry collaboration help accelerate their development into large-scale projects?

Large-scale projects are back in focus. SAMSUNG E&A secured a US\$3.5 billion fertiliser project from SABIC Agri-Nutrients Company. MENA still holds the world's largest energy pipeline; Saudi Vision 2030 and the UAE's Net Zero 2050 sustain demand for partners combining technology leadership, early engineering expertise, and long-term operational insight.

Projects of scale require licensors, contractors, and clients to align on technology selection, modularisation strategy, and pre-FID cost certainty. Our LNG Module Package with Honeywell brings licensor technology and EPC execution into a single pre-engineered offering. We work with clients such as ADNOC, Aramco, Petronas, PTT, Shell, among

others, from concept and FEED, settling scope, schedule, and cost before commitments are made. Since those projects depend on local capability, we build supply chains around in-country value, developing local vendors and fabrication partners so capacity, jobs, and skills stay in-country.

Gas is also going global, moving beyond MENA and North America into the CIS, Latin America and Africa, driven by energy security and supply diversification.

As demand for energy continues to grow, how do you see engineering, technology, and project execution shaping the next phase of the industry's evolution and enabling long-term energy security and economic growth?

Today's volatile landscape requires 'energy realism': securing energy in a sovereign world, affordably and sustainably, through operational resilience. Conventional risk management in FEED and project execution is no longer enough; turning policy and investment into production at scale demands a step change in delivery. Our AHEAD framework, powered by our Engineering Data Platform (EDP), is shifting us from reactive risk mitigation to proactive execution innovation, embedding AI and robotics at the core of delivery. This builds the energy advantage the industry needs: lifting productivity where workforce and industrial capacity are constrained, and giving capital-predictable performance through cycles. We optimise existing infrastructure while scaling low-carbon alternatives through our E&Able solutions,

"Today's volatile landscape requires 'energy realism': securing energy in a sovereign world, affordably and sustainably, through operational resilience."



Hong Namkoong
President & CEO
SAMSUNG E&A

“The test is not how advanced the technology looks today, but whether the plant it built is still running in 2050.”

Low, Zero and Circle, one integrated partner for today's energy needs and tomorrow's diversified industrial economy.

SAMSUNG E&A has continued to expand its portfolio across LNG, hydrogen, carbon capture, sustainable fuels, and other energy transition solutions. Which recent projects, partnerships, or milestones best reflect the company's vision for the future of energy?

SAMSUNG E&A has reorganised its portfolio into three business areas: Hydrocarbon, Advanced Tech, and New Energy. At Gastech 2026, we launched our LNG Module Package, marking full-scale entry into the LNG plant market. Combining Honeywell's AP-SMR™ (Single Mixed Refrigerant) LNG Process liquefaction technology with our modular execution capability, cuts project duration by 20% for mid-sized plants, building on basic design for an eco-friendly LNG plant in Indonesia, and conceptual design in North America.

We are building the Wabash low-carbon ammonia and SAF FEED project in the US, and in May 2026, we launched CompassH2-A+, a 100 MW pressurised alkaline solution cutting plant footprint by roughly half. New energy accounted for 54% of our orders last year. That is diversification measured in contracts, not intentions.

Technological innovation is transforming the way energy infrastructure is designed, built, and operated. Which technologies or emerging trends will have the greatest impact on the energy sector, and what opportunities do they create?

I have said that AI predicts and humans judge, and that AI would automate most of it except intuition. This year, I would add: technology that elevates must endure. Our AI now runs the full project lifecycle. It reads tender documents, proposes design alternatives, predicts cost and schedule. On the EDP, every discipline works at once, not in sequence. In our Smart Piping Shop, AI takes the design data and robots do the work. That capability travels: as modular fabrication moves closer to project sites, we transfer the same digital tooling and training to local yards and vendors. We re-skilled 10% of our people in three years.

Modular carbon capture and SAF are gaining commercial momentum; green hydrogen at scale remains longer-term. The test is not how advanced the technology looks today, but whether the plant it built is still running in 2050.

THOUGHT LEADERSHIP

Solutions that help clients meet current energy needs and sustainability objectives

Girish K. Saligram, President and Chief Executive Officer, **Weatherford International**, discusses how technology, innovation, and operational efficiency can help the energy industry meet growing demand while taking care of sustainability goals

How is Weatherford evolving its strategy to meet growing energy demand, advance lower-carbon objectives, and respond to changing market dynamics?

The world needs more energy, and it needs that energy to be delivered more efficiently, reliably, and sustainably.

Our strategy is built around helping customers maximise the value of their assets across the full well lifecycle while improving operational performance and reducing emissions intensity. We continue to invest in technologies that improve efficiency, automate workflows, optimise resource utilisation, and enable smarter decision-making through digital intelligence. We are also expanding our capabilities in areas such as carbon management, geothermal applications, and other emerging energy opportunities that leverage our core strengths in subsurface engineering and well construction. Our focus remains pragmatic: delivering solutions that help customers meet today's energy needs while advancing their long-term sustainability objectives.

“The world needs more energy, and it needs that energy to be delivered more efficiently, reliably, and sustainably.”

What long-term strategies are essential to ensuring both energy security and affordability?

Energy security and affordability will depend on a balanced approach. The industry must continue investing in conventional energy resources while accelerating technologies that improve efficiency, reduce waste, and lower the environmental footprint of operations. Long-term success will require sustained investment in infrastructure, innovation, digitalisation, and workforce development. It will also require stronger collaboration across the energy ecosystem. The most effective path forward is not choosing between reliability, affordability, and sustainability, but pursuing all three simultaneously through technology, innovation, and disciplined execution.

Which technologies, trends, or innovations do you see having the greatest impact on the energy industry over the next decade?

The convergence of automation, AI, advanced analytics, and industrial connectivity will have the most transformative impact on our industry. Energy operations are generating unprecedented amounts of data, and companies that convert that data into actionable intelligence will create meaningful competitive advantages. We are already seeing significant advancements in autonomous operations, predictive maintenance, intelligent completions, digital production optimisation, and next-generation well construction technologies. We are also investing in our ability to deliver more integrated solutions across the well lifecycle. The recent addition of NCS Multistage strengthens



Girish K. Saligram
President and CEO
Weatherford International

our completions portfolio and expands our capabilities in production optimisation, enabling us to bring together complementary technologies, expertise, and services that help customers improve well performance and maximise asset value. As customers increasingly seek fewer interfaces and more integrated solutions, this type of combination creates greater efficiency and delivers stronger outcomes in the field. Beyond traditional oil and gas applications, innovations in carbon management, geothermal energy, and other emerging energy technologies will continue creating new opportunities that leverage the industry's deep engineering and subsurface expertise.

Where do you see the greatest opportunities for AI to create value across your organisation?

For us, AI is not an isolated initiative; it is becoming embedded across our operations, products, and decision-making processes. The greatest opportunity lies in helping customers move from simply collecting data to making better decisions and ultimately achieving more autonomous operations. AI can identify patterns humans might miss, predict equipment issues before they occur, optimise production performance, enhance safety outcomes, and accelerate engineering workflows. Internally, AI is improving efficiency by automating routine processes, strengthening knowledge sharing, and enabling our teams to focus on higher-value activities. The most important point is AI augments human expertise. In a complex industry like energy, combining advanced analytics with decades of operational experience creates a powerful advantage for us and our customers.

“The greatest opportunity lies in helping customers move from simply collecting data to making better decisions and ultimately achieving more autonomous operations.”

What recent milestones, projects, or achievements have been most significant for Weatherford?

Over the past year, we continued to execute against our strategic priorities while strengthening our portfolio and technology capabilities. One of the most significant milestones was the acquisition of NCS Multistage, which expands our completions portfolio and enhances our ability to deliver more integrated solutions across the well lifecycle. By combining complementary technologies, expertise, and services, we are better positioned to help customers improve well performance, maximise asset value, and achieve stronger operational outcomes.

We have also continued to advance our digital capabilities, helping customers move from data collection to actionable insights and increasingly autonomous operations. We have also expanded strategic partnerships that combine Weatherford's domain expertise with leading digital and AI technologies to accelerate value creation for customers.

THOUGHT LEADERSHIP

The value of energy partnerships in diversifying and ensuring resilient supply

Dr Georg Stamatelopoulos, Chief Executive Officer of **EnBW AG**, explains his company's key role in Germany's energy ecosystem and outlines beneficial opportunities for overseas collaboration

EnBW is among Germany's three largest energy companies and stands out as the country's only integrated energy company, covering the entire value chain from power generation and trading through transmission to distribution and sales.

We are committed to shaping Germany's energy transition and have become Germany's largest producer of renewable energy. Working according to this strategy, we have nearly doubled our EBITDA over the past five years.

As an integrated energy company, our perspective on Germany's energy transition is holistic – and global.

We know how important strong partners are in building a competitive and resilient energy system, and we see vast opportunities for international collaboration, in particular with countries in the GCC region.

To begin with, Germany's highly regulated energy infrastructure makes the country an attractive market for long-term, stable and secure investment. Moreover, there are opportunities to jointly develop and finance energy infrastructure, and we believe that collaboration across the hydrogen and ammonia value chains will remain a key area of cooperation in the years ahead.

Diversification and resilience

An important area of intense collaboration is the import of LNG from the UAE. Germany still needs significant amounts of LNG on our way to fully carbon-free energy supply from renewable sources and green hydrogen.

To this end, EnBW has been globally one of the first companies that entered into an agreement with ADNOC to receive around 0.8 bcm of LNG annually from the Ruwais LNG project.

“Germany still needs significant amounts of LNG on our way to fully carbon-free energy supply from renewable sources and green hydrogen.”

It is a long-term deal that begins once Ruwais becomes operational. This will contribute to the diversification and resilience of the energy supply, not just in Germany but across Europe. The agreement also highlights the value of reliable energy partnerships and is a testament to the mutual trust and shared interest in long-term energy partnerships that we have built.

The same holds true for the MoU we have signed with Masdar to explore collaboration on battery energy storage systems as well as offshore wind projects – technologies that are highly important for the transformation of Germany's energy system.



**Dr Georg
Stamatelopoulos**
CEO
EnBW AG

Many joint projects are already on the way and make us very optimistic about the future of our partnership.

As one example, EnBW has already signed a JDA with Saudi-Arabia's Acwa for the import of green ammonia. Cracking this green ammonia to hydrogen will assist in building up the hydrogen economy for the industry and power generation.

“We do not view our relationships with the GCC region as a short-term response to an energy supply crisis, but as long-term partnerships aimed at ensuring competitive, secure and sustainable energy supply for Germany and Europe.”

Value in reliable partnership

We are among the first in Germany to worldwide secure green molecules. Moreover, as an alternative further down the road - and once suitable ships become available on a larger scale - the import of liquid hydrogen from the GCC region to Germany could also be a viable

option. Beyond that, other low-carbon molecules could be imported, such as sustainable aviation fuel or e-methanol. It is important to explore further joint investments and other opportunities of this kind.

They can create long-term partnerships that help diversify our energy system while also supporting the monetisation of the GCC region's renewable energy potential.

I would like to point out, especially against the backdrop of an increasingly challenging geopolitical situation, that the countries of the GCC region have been very reliable partners in recent years. All the examples I have mentioned so far demonstrate that EnBW has been at the forefront of initiating these partnerships.

Accordingly, we do not view our relationships with the GCC region as a short-term response to an energy supply crisis, but as long-term partnerships aimed at ensuring competitive, secure and sustainable energy supply for Germany and Europe.

Our participation in ADIPEC is testimony to this perspective and reflects our long-term commitment to the GCC region. We aim at further deepening existing relationships, exploring new opportunities for cooperation, and jointly advancing the energy transition.

I am looking forward to this year's ADIPEC in order to personally contribute to these targets.



SECTION 3: TECHNOLOGY AND AI

AI's growing appetite for energy and its power to deliver

Artificial intelligence is emerging as a powerful tool for improving efficiency across the energy system, even as it becomes a significant new source of electricity demand. For the industry, this paradox is both a challenge and an opportunity

Artificial intelligence is creating one of the energy industry's most intriguing contradictions. The technology is making oilfields more productive, power grids more efficient and industrial operations more reliable. Yet the computing infrastructure needed to run it is becoming one of the fastest-growing sources of electricity demand. For energy companies, AI is emerging as both a solution to the industry's biggest challenges and a new challenge in its own right.

Clearly, the energy industry has spent decades pushing the boundaries of what is physically possible by drilling deeper, operating in harsher environments, and building complex infrastructure to meet growing global energy demand. But technological advances over the past two decades have opened a new frontier, where the emphasis is shifting towards making existing systems more intelligent. AI, today, is one of the most important technologies of our time. From offshore platforms and processing facilities to electricity grids



As energy demand grows and infrastructure becomes more interconnected, the ability to translate information into faster, better decisions could prove as important as the physical assets that underpin the global energy system.



and transmission networks, AI, robotics, digital twins and advanced analytics are changing how energy companies operate. Machines are anticipating equipment failures, algorithms are optimising production in real time, and digital replicas are simulating operational scenarios before decisions are implemented in the physical world. The transformation comes at a pivotal moment. Global electricity demand increased by approximately 3% in 2025, more than twice the rate of overall energy demand growth,



according to the International Energy Agency (IEA). The agency expects electricity consumption to grow by 3.6% in 2026 and 3.8% in 2027, driven by industrial activity, electrification, cooling requirements and expanding data centre capacity.

At the same time, AI-enabled optimisation could cut energy costs by three to 10 percentage points in energy-intensive industries. An IEA study also finds that well-documented use cases could save more than 13 exajoules by 2035, which is equivalent to around 3% of global energy consumption, that is, if the barriers to adoption are overcome.

Across electricity grids, AI is already being used to monitor transformers and other equipment to reduce failures. Combined with grid-enhancing technologies, it can help extract greater capacity from existing infrastructure, reducing the need for costly and time-consuming expansion.

For an industry balancing rising demand with energy security, operational resilience and decarbonisation,

the implications are significant. Technology is becoming more than an instrument for improving productivity. It is increasingly central to the industry's ability to deliver reliable, affordable energy while managing costs, addressing infrastructure constraints and responding to environmental pressures.

From reactive to predictive

Perhaps the biggest opportunity lies in extracting more value from infrastructure already in operation. Energy assets generate enormous volumes of information, from pressure and temperature readings to vibration patterns and equipment performance. Historically, much of this data was analysed retrospectively. AI is changing that relationship, allowing operators to identify anomalies, anticipate failures, and intervene before problems escalate into costly disruptions.

Predictive maintenance illustrates the shift. Rather than relying exclusively on scheduled inspections or responding after equipment fails, machine learning models can identify early signs of deterioration,



helping companies prioritise interventions, reduce unplanned downtime and extend asset life.

The commercial benefits reflect this transformation

In 2023, a regional oil major reported generating US\$500 million in value through the deployment of more than 30 AI tools across its operations. These applications supported activities ranging from field operations to corporate decision-making, demonstrating how digital intelligence can influence performance across the energy value chain.

Another oil major reported gains of approximately US\$1.8 billion from deploying AI-driven technologies in 2024, with applications spanning maintenance, production optimisation and operational decision-making. These examples illustrate a broader shift in the industry's approach to AI, from experimentation towards measurable business outcomes.

The IEA estimates that widespread adoption of existing AI applications could unlock up to



Perhaps the biggest opportunity lies in extracting more value from infrastructure already in operation.

175 GW

Additional transmission capacity that existing AI applications could unlock from existing power lines.

Source: International Energy Agency

175 GW of additional transmission capacity from existing power lines. In its modelling, AI applications in power plant operations and maintenance could also generate annual cost savings of up to US\$110 billion by 2035.

The AI-energy opportunity

Data centres consumed approximately 415 terawatt-hours of electricity in 2024, accounting for around 1.5% of global electricity consumption, according to the IEA. Its 2025 Energy and AI report projected that consumption could more than double to approximately 945 terawatt-hours by 2030, with AI the most important driver of that growth. More recent IEA analysis found that data centre electricity consumption increased by approximately 17% in 2025, considerably faster than overall global electricity demand.

This creates a new commercial and infrastructure challenge. AI developers require enormous computing capacity, but the facilities supporting that capacity depend on reliable electricity supplies, transmission infrastructure and increasingly sophisticated cooling systems.

Unlike digital infrastructure, which can sometimes be developed relatively quickly, major electricity generation and transmission projects can take years to plan, finance and construct. The resulting mismatch between technology deployment and energy infrastructure development could create bottlenecks, particularly in regions experiencing

concentrated data centre investment. Yet the same challenge also presents opportunities for energy producers, utilities and infrastructure developers to expand capacity, strengthen grids and invest in more flexible energy systems.

From innovation to industrial scale

For energy companies, the next competitive advantage may not come from the most sophisticated algorithms, but from integrating technology with engineering expertise, operational knowledge, and sound investment decisions.

Ultimately, the energy industry's digital transformation will be judged less by the number of AI systems deployed than by their ability to deliver more reliable infrastructure, higher productivity, lower operating costs and measurable improvements in environmental performance.

As energy demand grows and infrastructure becomes more interconnected, the ability to translate information into faster, better decisions could prove as important as the physical assets that underpin the global energy system. By combining operational data with market intelligence and advanced analytics, organisations can anticipate disruption, identify emerging risks and respond more effectively to changing conditions. This capability could help optimise existing assets, guide investment and strengthen resilience across increasingly complex energy networks.

US\$110 billion

Potential annual savings from AI in power plant operations and maintenance by 2035.

Source: International Energy Agency



For energy companies, AI is emerging as both a solution to the industry's biggest challenges and a new challenge in its own right.



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THOUGHT LEADERSHIP

Providing greater decision-making insights in a timelier and more accurate fashion

AIQ is showcasing capabilities it believes help solve challenges raised by the rapid advancement of AI, which can often be disconnected from physical operations and not designed for real-world, high-stakes decision-making. **Dennis Jol**, CEO, **AIQ**, explains

How can the energy sector help balance rising global energy demand with the imperative for resilience and long-term security?

I sincerely believe that AI can be a major contributor to achieving this balance. Global demand for energy is rising, and this is attributable not only to demand for electricity from data centre build outs, but also to rising populations and an increasing rate of urbanisation. To close the gap between demand and supply, the most impactful tools and applications should be combined with human ingenuity to permit the production of energy in the most efficient and sustainable manner possible. We believe AI provides this additional lever.

How do your services actively de-risk investments, secure vulnerable supply chains, or enable robust cross-border energy partnerships?

As a company developing industrial AI solutions at scale for the energy sector, all our capabilities are built to provide greater decision-making insights in a timelier and more accurate fashion. When energy operators deploy computer vision, time-series forecasting, agentic AI, or other forms of AI-enabled applications, they can benefit from analysis and forecasting that better supports business cases and justifies investment.

Securing supply chains is a highly topical issue given the interconnected and global nature of the energy sector. We are proud to showcase a pioneering solution at ADIPEC that we have developed given that behind every energy asset is

“As the number and complexity of AI-enabled environments grows within energy organisations, there is a need to better understand, coordinate, and organise the way in which data, applications, systems, and AI agents can be accessed and utilised.”

a complex supply chain. Thousands of parts. Thousands of documents. Multiple suppliers and systems. Yet inventory can often sit stranded. Weeks to months for critical parts to arrive. Technical evaluations dragging on while available spares go unused. Fragmented suppliers with zero real-time visibility. And critical asset intelligence scattered across piping and instrumentation diagrams (P&IDs), datasheets, vendors and enterprise systems, none of it connected.

Our autonomous platform for supply chain starts with the operator's engineering documents: P&IDs, datasheets, specifications and OEM manuals. AI extracts, structures, validates and connects them. Every asset receives a CXID, a persistent digital identity linking documents, assets, systems, revisions and standards. Then our solution orchestrates across SAP and the entity's enterprise



Dennis Jol
CEO
AIQ

systems, turning engineering decisions into enterprise outcomes.

How is the energy sector addressing the dual challenge of deploying AI capabilities while managing the intensive new power demand it creates? How is AIQ helping with that?

AIQ was created in 2020 to address this very challenge before it became an international trend. Our shareholding - divided between a big data and analytics company (Presight) and a national oil company (ADNOC) - reflects our operation being at the intersection of energy and digital innovation. Our purpose is to support the narrowing of the gap between energy supply and demand by creating AI-enabled capabilities that make the production of energy more efficient, safer, more cost-effective, and more sustainable.

We believe AI can play a significant role in supporting the production of more energy, more cheaply and sustainably, though the technology alone is not enough. There needs to be an accompanying change management process in place to upskill workers to leverage AI capabilities to the best of their ability.

As the number and complexity of AI-enabled environments grows within energy organisations, there is a need to better understand, coordinate, and organise the way in which data, applications, systems, and AI agents can be accessed and utilised. At AIQ, the necessity for trust, security, end-to-

“We are enthusiastic about the rise in autonomous capabilities across the energy value chain, and are focused on driving the greatest amount of trust and impact within this area.”

end visibility, actionable insights, and the visualisation of integrated information and workflows is a key focus as we look to have the energy industry benefit from the evolution of AI from agentic to orchestrated performance.

What resilient solutions are you most excited to showcase and explore at ADIPEC 2026?

We are enthusiastic about the rise in autonomous capabilities across the energy value chain, and are focused on driving the greatest amount of trust and impact within this area. Every human decision follows three steps: we analyse data, we visualise possibilities, and we decide what to do. Our AI-native operating system for autonomous energy workflows, named Genesis, replicates this loop. It does not just generate answers. It creates a transparent, editable plan, visualises the outcomes, and enables decisions - either by humans, or autonomously.

THOUGHT LEADERSHIP

Reducing uncertainty with industrial intelligence

Caspar Herzberg, CEO, **AVEVA**, explains how his company is helping to address the huge energy demands of AI and enabling better industrial decisions through the use of digital twins and improved understanding of data

How can the energy sector help balance rising global energy demand with the imperative for resilience and long-term security?

Energy demand is increasing while the supply mix grows ever more complex. In this context, resilience and energy security begin with visibility. You can't manage what you don't measure. Creating visibility across energy systems is really step one. There is still work to be done to connect energy infrastructure around the world, but we are already on to step two, which is about creating system-level intelligence from those connections, using analytics, AI and data in context. Step three is effectively applying that intelligence to anticipate problems, make informed decisions and drive better execution across the lifecycle. When you can close the gap between infrastructure, insight and action, you're much better able to adapt to changing circumstances.

How do your services actively de-risk investments, secure vulnerable supply chains, or enable robust cross-border energy partnerships?

Industrial intelligence is about reducing uncertainty. When we combine real-time asset and production data with cloud-based analytics and AI, and a robust understanding of that data in context, we are positioned to make better decisions. Whether that is engineering, operations or supply chain planning, industrial intelligence gives leaders the ability to test scenarios, identify constraints and evaluate options. An end-to-end digital twin that marries physical systems with real-time data

can help translate insights about asset or production optimisation into concrete action. Complex, cross-border energy partnerships will be essential to system resilience in the years ahead, but they cannot be effectively built or sustained without the right industrial intelligence foundation.

How is the energy sector addressing the dual challenge of deploying AI capabilities while managing the intensive new power demand it creates? How is your company helping with that?

AVEVA and our parent company Schneider Electric are in the vanguard of helping address the soaring power demands of AI. We are working with data centre builders, operators and end users to optimise how power is sourced, protected and managed, including applying AI itself to make AI infrastructure more energy efficient.

“When you can close the gap between infrastructure, insight and action, you're much better able to adapt to changing circumstances.”



Caspar Herzberg
CEO
AVEVA

“Complex, cross-border energy partnerships will be essential to system resilience in the years ahead, but they cannot be effectively built or sustained without the right industrial intelligence foundation.”

One example is our partnership with NVIDIA, where we have created a next-generation digital twin capability for gigawatt-scale data centres, the so-called “AI factories,” that enables customers to design, simulate, build, operate and optimise these facilities more effectively, accelerating deployment while maximising performance, energy efficiency and GPU utilisation. We believe the only way to address the intensive power demands of these facilities is to treat them as the complex industrial sites they truly are.

What specific role does your technology play in expanding, integrating, or fortifying critical infrastructure, such as grids, storage, offshore platforms and pipelines?

One of the big opportunities to drive greater energy system resilience is “fast” energy infrastructure. At COP28 in Dubai, nearly 200 nations pledged to triple

renewable energy capacity by the end of this decade. I like to say that one of the fastest ways to triple capacity is to double it. By that I mean create a double, a digital twin, of the physical assets. With digital twins, EPC firms, utilities and others can create dynamic virtual replicas of critical infrastructure, enabling streamlined design, commissioning and construction. We’re working with energy sector leaders around the world to harness AI, predictive analytics and engineering tools to support faster execution, improved accuracy and greater efficiency across complex capital projects.

What resilient solutions are you most excited to showcase and explore at ADIPEC 2026? How do you think they will accelerate the industry’s progress?

The energy system is reaching an inflection point where complexity, speed and efficiency are converging. To manage this system effectively we need to go beyond individual point solutions to focus on creating an end-to-end “digital thread” that spans the entire asset lifecycle. We are past the point of closed technology stacks. We need open, interoperable data ecosystems that can exchange information and insights rapidly while preserving essential context. I’m therefore excited by what AVEVA and our partner company Schneider Electric are showcasing at ADIPEC: the energy and industrial intelligence foundation to power greater resilience and create the conditions for autonomous operations.

THOUGHT LEADERSHIP

AI is not the hard part. Readiness is.

Muqsit Ashraf, Group Chief Executive - Industry and Enterprise, **Accenture**, says the energy companies that turn AI into advantage will be those willing to redesign how decisions are made, how work flows, and how value is created

When electric power first entered factories, many manufacturers did what seemed sensible: they retrofitted it into the existing production system.

Motors powered the old shafts and belts; the layout, flow of work and hierarchy changed little. The full gains came later, when leaders redesigned the factory around what electricity made possible. The lesson is clear. The winners were not necessarily the companies that installed the technology first. They were the ones prepared to reorganise production, put decisions closer to value creation and rethink how work moved across the enterprise.

Artificial intelligence is posing the same test today. It has moved from the innovation lab to the board agenda at extraordinary speed. Investment is rising, adoption is broad and expectations are high. Yet the question I hear most often is no longer whether AI will matter. It is why so much activity has not yet produced commensurate value.

AI is technically complex. But for established energy enterprises, the truly hard, and scarce, work is changing the enterprise so that AI can create value at scale. Access to AI is rapidly becoming abundant; the capacity to turn intelligence into action is not. AI is not a transformation strategy. It is an accelerant for the strategy, operating model and workforce a company is prepared to change.

For several years, resilience has rightly been the priority. Businesses have had to absorb supply disruption, geopolitical shocks, inflation and rapid technological change. That ability remains essential. But the organisations beginning to pull ahead are building on resilience to move faster, unlock growth and create competitive advantage, not merely withstand the next shock.

Nowhere is this more visible than in energy. Electricity demand is rising and energy systems are becoming more digital, distributed and data-rich. Companies are committing significant capital to AI-enabled operations, digital infrastructure, data platforms and new business models. These investments are essential. But they are increasingly table stakes. In an asset-intensive, safety-critical industry, the value of a prediction is only as great as the decision or action it changes.

The real advantage lies in the conversion of information into action: whether an operator can intervene earlier, an asset can run more reliably, a turnaround can be planned better, a commercial or capital decision can improve, or a promising use case can move beyond a pilot into the core business. AI does not create advantage at the point of deployment, but at the point of decision.

Accenture's latest Pulse of Change research makes the gap plain: 82% of C-suite leaders are increasing AI investment, yet only 23% report widespread, sustained business value from it. That is not an ambition gap. It is a readiness gap.



Muqsit Ashraf

Group Chief Executive -
Industry and Enterprise
Accenture

“AI does not create advantage at the point of deployment, but at the point of decision.”

For CEOs and boards, the implication is clear: do not ask only where AI is being deployed. Ask what must change in how the company is organised, governed and led for AI to improve performance at scale. The question is not whether the model works. It is whether the organisation can work differently because it does.

Before a company asks AI to transform performance, it needs to confront a more basic question: what would this business need to look like if AI did not exist? Too many management layers, fragmented processes, unclear decision rights and duplicated work are not AI problems. Automating them does not make them valuable; it can accelerate their cost and complexity. AI scales whatever it finds: a well-designed system or a poorly designed one.

The leaders making meaningful progress are disciplined about this. They simplify before they automate. They redesign workflows, clarify who decides what and concentrate investment on the few AI applications that can

materially change performance. They measure success in production, reliability, safety, cycle time, capital efficiency, revenue or customer value, not in the number of pilots launched. A pilot proves possibility. A redesigned workflow proves value.

People are central to that discipline. Engineers, operators and leaders need the confidence, skills and guardrails to work with AI, challenge its outputs and make better decisions because of it. In a safety-critical industry, this is not a change-management footnote; it is a condition for trust and performance. A sophisticated model in an organisation that does not trust it, or know how to use it, is simply an expensive asset sitting idle. This is what readiness means in practice: simpler work, clearer accountability, trusted data and controls, stronger skills, and leadership aligned around a small number of outcomes that matter. It is the work that turns technology from promise into performance.

As leaders gather at ADIPEC to consider the future of resilient, integrated and intelligent energy systems, the competitive question is changing. It is not who can announce the largest technology investment or launch the most pilots. It is who can turn intelligence into better decisions, and better decisions into safer operations, stronger reliability, smarter capital allocation, and new sources of growth. Technology changes what is possible. Readiness determines the economic result.



SECTION 4: RESILIENT INFRASTRUCTURE

The nuts and bolts of a secure energy system

From electricity grids and LNG terminals to industrial networks, strengthening infrastructure is essential to meeting rising demand and securing future growth

The global energy system is being asked to do several things at once. It must expand to meet rising demand, diversify to withstand disruption, decarbonise, and become more resilient. Tasks that might once have been pursued sequentially are now competing for investment, resources, and time. Energy resilience is therefore becoming an infrastructure challenge. The world needs new sources of supply, but it also needs the physical networks that move energy from where it is produced

to where it is consumed. Grids, pipelines, liquefied natural gas (LNG) terminals, storage facilities, ports and industrial networks are becoming as important to energy security as the resources they carry.

The International Energy Agency (IEA), in its Electricity 2026 report, forecasts global electricity demand to grow by an average of 3.6% annually between 2026 and 2030, compared with 2.8% over the previous decade. Annual demand growth over the next five years is expected to

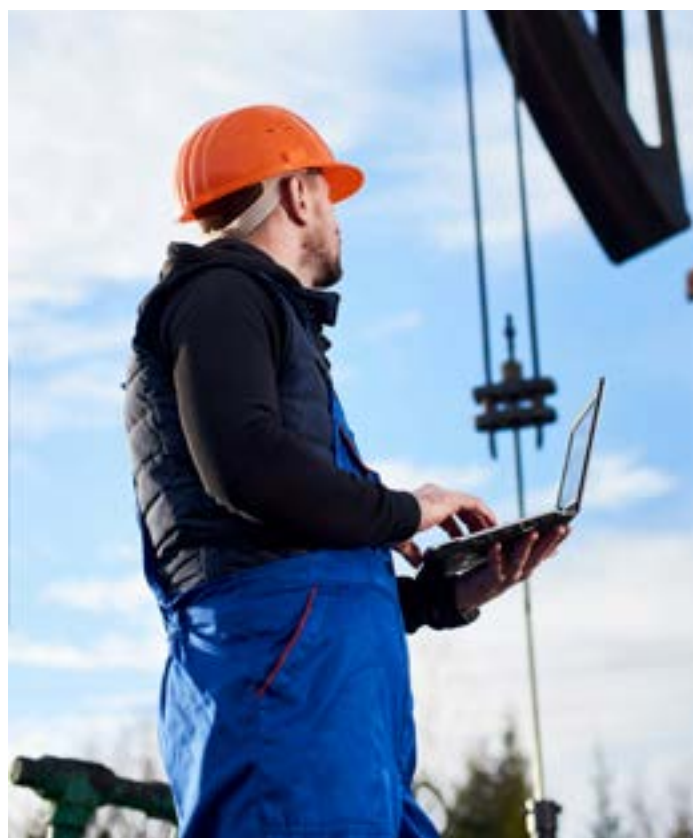


The world needs new sources of supply, but it also needs the physical networks that move energy from where it is produced to where it is consumed. Grids, pipelines, liquefied natural gas (LNG) terminals, storage facilities, ports and industrial networks are becoming as important to energy security as the resources they carry.



be 50% higher than the average for the previous decade, driven by industrial activity, electrification, cooling, and data centres.

At the same time, governments are seeking to strengthen energy security, expand manufacturing and reduce emissions. Meeting these objectives will require more than additional generation capacity. It will require the infrastructure to connect supply with demand and keep energy moving reliably across economies.



Why investment cannot wait

Five developments are driving the need for investment:

- **Rising demand:** population growth, economic expansion and electrification are pushing electricity demand higher across transport, buildings and industry.
- **AI and data centres:** the rapid expansion of artificial intelligence and data centres is creating another source of demand for reliable electricity.
- **Ageing infrastructure:** grids, pipelines and industrial facilities need upgrading as demand grows and patterns of supply change.
- **Industrialisation:** manufacturing, chemicals, metals and emerging industrial clusters all depend on reliable energy at competitive prices.
- **Decarbonisation:** lower-carbon energy also requires new infrastructure alongside the transformation of existing systems. Renewables need transmission and storage, while hydrogen and carbon capture, utilisation and storage (CCUS) require specialised production facilities, transport networks and storage sites. The challenge is to secure the energy economies rely on today while building the infrastructure that will sustain future growth.

The grid becomes a strategic asset

Electricity grids sit at the centre of the energy system. Adding generation capacity does little to improve energy security if the network cannot deliver electricity to consumers. The rapid expansion of solar and wind makes this more pressing. Renewable output varies with weather conditions, while demand changes throughout the day. Integrating these resources requires stronger transmission networks, cross-border connections, better forecasting, flexible demand, and storage.

The scale of this challenge is already visible. More than 2,500 GW of renewable generation, storage and large electricity-consuming projects are waiting in grid connection queues worldwide. To meet this demand, annual grid investment needs to rise by around 50% by 2030 from the current level of approximately US\$400 billion.

Investment must extend beyond conventional network expansion. High-voltage transmission, digital substations, smart-grid technologies, batteries and microgrids can give power systems greater flexibility, and reduce their dependence on individual assets. Also, regional



interconnections can allow countries to share available power and make better use of diverse energy resources.

LNG and diversified supply

Natural gas and LNG remain important components of energy security in markets where they support electricity generation and industrial activity or provide alternatives to other fuels. But supply is useful only if it can reach the markets that need it, making export terminals, liquefaction plants, pipelines, carriers, import terminals, and regasification facilities critical parts of the system.

The IEA's Global LNG Capacity Tracker, updated in October 2026, expects more than 330 billion cubic metres per year of additional LNG export capacity to come online between 2025 and 2030 from projects that had reached final investment decisions and were under construction at the start of 2025.

The US and the UAE account for a substantial share of this expansion. ADNOC's Ruwais LNG expansion illustrates the scale of investment involved. According to ADNOC's strategic updates, the country's LNG production capacity is planned to more than double,



Electricity grids sit at the centre of the energy system. Adding generation capacity does little to improve energy security if the network cannot deliver electricity to consumers.

Over

2,500 GW

of renewable energy, storage and electricity-intensive projects await grid connection worldwide.

Source: International Energy Agency

rising from six million tonnes per year to about 15 million tonnes per year by 2030. But expanding production is only one part of the equation. Shipping routes, receiving terminals and downstream networks are needed to move that gas reliably to the markets that depend on it.

Storage: bridging supply and demand

Storage helps bridge the gap between when energy is available and when it is needed. Oil and gas reserves can provide a buffer against supply interruptions, while batteries can store electricity for periods of peak demand or lower renewable output. Also, thermal storage can retain energy for later use in heating, cooling and industrial processes.

The GCC region is committed to massively expanding storage capacity. In Abu Dhabi, Masdar and Emirates Water and Electricity Company have announced a large-scale solar and battery project designed to deliver renewable electricity around the clock. The UAE's 5.2 GW solar photovoltaic plant paired with a 19 GWh battery energy storage system is designed to deliver up to 1 GW of renewable power around the clock.

Similarly, ADNOC is also expanding storage and industrial buffer infrastructure across its operations. ADNOC's deployment of advanced energy storage solutions and system integrations work hand-in-hand with national power initiatives. Together, projects such as these show how storage is becoming an integral part of power and industrial infrastructure, particularly as electricity systems incorporate larger amounts of variable renewable generation.

Building beyond the energy sector

Energy resilience also depends on infrastructure beyond the energy sector itself. Ports, shipping routes, transport corridors, manufacturing facilities, digital systems and supply chains all affect whether energy can reach markets reliably.

An LNG terminal, for example, depends on shipping, storage and distribution. Industrial clusters need dependable power, fuel supplies and transport links. Hydrogen projects require production facilities, pipelines or other transport options, storage and customers able to use the product. A failure or delay in one part of these networks can disrupt the others.

Lower-carbon infrastructure also requires substantial investment and the world needs expanded electricity networks and storage. This makes coordination between governments, energy companies, grid operators, investors, logistics providers and industrial users essential. Infrastructure planning must account for how networks interact, rather than treating each project as a standalone asset. The next energy system must be larger, but scale alone will not make it resilient. It must also be better connected, more flexible, and capable of adapting to changing demand and disruption. The task is to secure the energy economies need today while building the grids, storage, supply routes, and industrial networks that will sustain growth in the years ahead.

As ADIPEC 2026 brings governments, industry, investors and technology leaders together, the question is not simply how to produce more energy. It is how to build the systems that can deliver it reliably, affordably and securely.

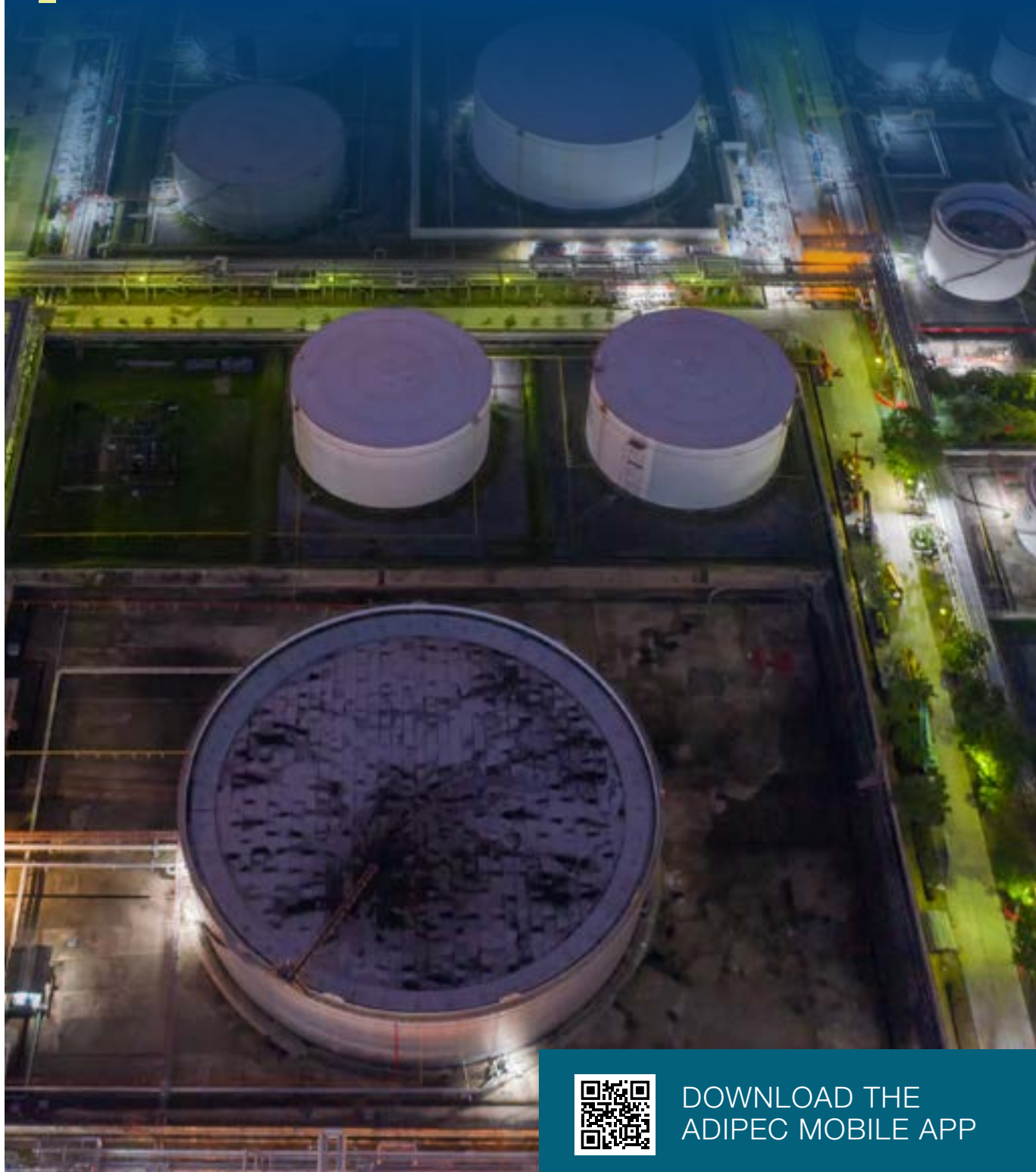
50%

Increase in the annual grid investment need to accommodate energy storage and large electricity-consuming projects

Source: International Energy Agency



Lower-carbon infrastructure also requires substantial investment and the world needs expanded electricity networks and storage.



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THOUGHT LEADERSHIP

Meeting tomorrow's energy needs in an era of uncertainty

Russell Hardy, Chief Executive Officer, **Vitol**, argues why the energy sector needs to deliver conventional energy efficiently and cost-effectively, while responding to the changing shape of the demand barrel and the growing need for generation

As the world's largest independent trader of energy, Vitol sits at the heart of energy markets globally. For 60 years, we have watched the energy sector evolve, new centres of production and refining emerge, and seismic shifts in consumption patterns be established as economies east of Suez have grown to become the largest consumers of energy.

Energy markets today are highly interconnected and responsive to fundamentals. Over the last decade, they have proven their resilience time and again to both supply and demand shocks, with price incentivising the behaviours required to correct the prevailing imbalance across open markets. From the demand shock of COVID-19 to the supply disruptions resulting from the war in Ukraine, price and market structure have caused participants to store or reroute energy supplies.

The Iran conflict has caused supply to contract, prices have responded accordingly, and the market has adjusted in the short term. New trade flows have emerged, such as jet flowing from the US to Australia, and stocks have drawn down around the world.

Supply disruptions usually result in a structural, longer-term impact as consumers and governments seek to mitigate current and future risks. Since late February, we estimate that global oil demand has fallen by over two and a half million barrels a day. Excluding COVID-19,

this is the largest recorded annual fall in oil demand. For context, after the 2008/9 financial crash, oil demand fell one million barrels a day in both years. The current fall has come predominantly from transport fuels and petrochemical feedstock due to cyclical and structural demand destruction, both driven by high prices. Only once prices return to long-term averages will demand rebound.

“For the energy sector, the challenge of satisfying current and future demand is significant.”

Economic development has always gone hand in hand with increased energy consumption. The growth in energy-hungry technologies, such as data centres, is likely to accelerate energy demand relative to GDP growth. For the energy sector, the challenge of satisfying current and future demand is significant.

Where uncertainty remains is the profile of that demand. Economies are electrifying with a relative shift away



Russell Hardy
CEO
Vitol

from hydrocarbon molecules to electrons, driven both by government mandates and, for the first time in a meaningful way, consumer choice.

Globally, one in five new cars bought in 2026 is a battery electric vehicle (BEV). In China, 35% of new car sales are pure EVs, and even their commercial vehicle sector is diversifying into batteries and LNG. This will, however, take time to have a consequential impact on the global vehicle fleet, and the future pace of this shift is unclear.

Greater electricity demand means more call on all forms of generation: coal, nuclear, LNG and renewables. Supply constraints of LNG arising from the Iran war have driven up Asian gas prices by circa 200%. In three large Asian economies, China, Japan and Korea collectively, some nine gigawatts of gas-fired power has been replaced by coal, while in India coal burn is up 7% due to both LNG constraints and a poor monsoon.

Elevated prices incentivise investment in renewables by governments and consumers, both in front of and behind the meter, and the IEA estimates renewable generation, including hydroelectric, will increase to 37% by 2027 from 33% in 2025.

Nonetheless, the global economy will continue to rely on oil for some time. Oil demand is changing, not disappearing. As Vitol analysis shows, despite the

geopolitical shocks that caused demand to fall this year, we expect oil demand to continue to grow until the early 2030s and remain robust for some time. By 2040, our long term oil demand outlook estimates that oil demand will be around four million barrels a day higher than today. But the demand barrel will change, with the importance of road transport fuels declining and growth being driven by petrochemical feedstocks and jet fuel.

“Elevated prices incentivise investment in renewables by governments and consumers, both in front of and behind the meter, and the IEA estimates renewable generation, including hydroelectric, will increase to 37% by 2027 from 33% in 2025.”

This is a big call on our sector. We have to deliver conventional energy efficiently and cost-effectively, while responding to the changing shape of the demand barrel and the growing need for generation.

THOUGHT LEADERSHIP

Essential materials, global impact: building for long-term growth

Roger Kearns, Chief Executive Officer, **Borouge International**, explains how scale, connectivity and technology give it the resilience to navigate uncertainty and ambition to shape its industry as the world's leading pure-play polyolefins company

ADIPEC brings together the leaders, technologies and partnerships shaping the future of energy and industry. As its agenda focuses on building resilient infrastructure, widening access to energy, accelerating digitalisation and delivering practical solutions at scale, the role of advanced materials has never been more important.

Polyolefins are integral to this progress: they protect power cables, strengthen pipes, make vehicles lighter, preserve food, support medical applications and enable the infrastructure behind the digital economy. At Borouge International, our purpose is clear: to provide the essential materials that advance the world.

Our company was formed this year through the combination of Borouge and Borealis and the acquisition of NOVA Chemicals. Backed by XRG - ADNOC's international investment arm - and OMV, as equal shareholders, Borouge International unites three complementary businesses with proud legacies, deep expertise, and strong customer relationships. The strategic logic is compelling: geographic diversification, premium products, advantaged feedstock, leading technologies, and access to attractive growth markets.

Since our formation, our priority has been to integrate successfully while maintaining safe, reliable operations and uninterrupted service. We are bringing together the strongest capabilities of our legacy companies, aligning

teams around a common culture, and operating as one global organisation. This work is already creating a stronger platform - one that can share expertise faster, scale proven solutions across regions, and respond to customers with greater breadth, agility, and proximity.

Scale matters in our industry, but it is most powerful when connected. Borouge International is the world's leading pure-play polyolefins company, with access to approximately 13.6 million tonnes of annual production capacity across 30 manufacturing sites. Headquartered in Vienna, with our regional headquarters in Abu Dhabi, and corporate hubs across North America, Europe, and Asia, our diversified footprint combines the UAE's scale and connectivity, Europe's application and technology leadership, and North America's feedstock and commercial strengths.

For customers, this means more than a larger production base. It means broader solutions, deeper technical support, and a supply network built for reliability. Our manufacturing, commercial, and logistics presence enables us to serve major markets across Europe, the Middle East, Asia, and North America, with reach extending into Africa and Latin America. In a volatile world, this diversity gives us greater flexibility to respond to shifts in demand, trade flows, and supply conditions.

Technology is another defining strength. Our portfolio is built on thousands of patents and proprietary platforms,



Roger Kearns

CEO

Borouge International

“By combining world-class assets, complementary regional strengths, and a shared commitment to customers, we have built a company with the resilience to navigate uncertainty and the ambition to shape the future of polyolefins.”

including Borstar®, Borlink™, Borceed™, Borcycle™, and Advanced SCLAIRTECH™. Across six innovation centres in the UAE, China, Canada, Austria, Finland, and Sweden, our scientists and engineers work with customers to turn these technologies into high-performance solutions. This global network helps us shorten development cycles, improve processing efficiency, reduce material use, and tailor products to regional and application needs.

Innovation is also central to our growth. At Borouge 4 in the UAE, Borstar® 3G technology will expand production of advanced polyethylene solutions for infrastructure, agriculture, and advanced packaging. Once fully operational, the megaproject will add 1.4 million tonnes of

annual capacity and help make Ruwais the world’s largest single-site polyolefins complex. In parallel, we are applying AI and digitalisation across production, research, supply chains, logistics, and customer engagement - developing high-impact solutions once and scaling them across our global operations.

These capabilities matter because the applications we serve are fundamental to modern life. Our materials help deliver safe drinking water, reliable electricity, and renewable energy; support lighter, more efficient mobility; protect food and reduce waste; enable critical healthcare products; and strengthen the data and communications infrastructure powering AI. We are also advancing circular solutions as customers increasingly seek high performance alongside lower-carbon and recycled-content options.

ADIPEC brings together leaders who understand that progress depends on practical delivery - aligning technology, investment, partnerships, and execution. Borouge International embodies that approach. By combining world-class assets, complementary regional strengths, and a shared commitment to customers, we have built a company with the resilience to navigate uncertainty and the ambition to shape the future of polyolefins. Our focus is clear: operate safely, innovate with purpose, and serve customers wherever they are. That is how we will turn global scale into lasting impact and deliver the essential materials that advance the world.

THOUGHT LEADERSHIP

From pilot to scale: what makes industrial transition projects bankable

Charlie Tan, CEO of [Global Impact Coalition](#), discusses how commercial viability, infrastructure readiness and industry collaboration can turn promising industrial technologies into bankable projects

Many promising industrial technologies are already operating at pilot scale. Far fewer have made the jump from technical success to commercial scale. Industrial transition does not have a pilot problem. It has a commercial coordination problem.

Across chemicals, energy and heavy industry, a great deal of work has gone into proving new technologies. But once a pilot works, a different set of questions begins. Who will buy the product? Is the infrastructure in place? Who takes the early risk? And can the economics support a project large enough to attract serious capital? This is where many projects get stuck, and rarely for want of technology. The commercial pieces are nobody's job to assemble. The Gulf offers some useful examples of how these pieces can be brought together.

“At the Global Impact Coalition, we see this challenge repeatedly: commercial coordination often determines whether projects move beyond the pilot stage.”

In Abu Dhabi, TA’ZIZ announced US\$28.5 billion of long-term agreements spanning feedstock, sales and offtake, securing

demand and supply before assets reached full production. Similar logic is evident at Ruwais LNG, where long-term commitments cover more than 90% of capacity. Saudi Arabia is, meanwhile, putting export infrastructure in place for green hydrogen and derivatives. These projects share the same principle: commercial certainty makes investment possible.

Even if they are very different projects, they share something worth naming: in each case, someone owned the commercial architecture. That is rarer than it sounds. Most industrial transition projects have a technology owner, a capital owner and a policy owner, but nobody responsible for making the commercial pieces fit together. At the Global Impact Coalition, we see this challenge repeatedly: commercial coordination often determines whether projects move beyond the pilot stage. Our Sustainable Olefins project illustrates the point. It is exploring a viable route to producing olefins from sustainable methanol, but success depends on more than technology. Significant capital is required, and uncertain demand makes committed offtake and shared investment essential from the outset. Getting there means being realistic. A project still has to make commercial sense, and in our experience that comes down to four things.

The first issue is **integration**. Can technology work within existing infrastructure and value chains, or does an entirely new system need to be built around it? This should be understood early. A technically strong solution

**Charlie Tan**

CEO

Global Impact Coalition

becomes much harder to scale if the infrastructure needed to support it is unavailable or prohibitively expensive.

The second is **demand**. The gap between expressed interest and a 10- or 20-year commitment is where, in our experience, most projects quietly stall. Yet that commitment can be exactly what gives a producer the confidence to invest and a lender greater visibility over future revenues. That is why long-term offtake, demand aggregation and clearer product standards matter. Several buyers acting together can create a market signal that no single buyer can produce alone.

Then there is **capital**. We often say industrial transition needs more finance. I think that is only half right. The harder question is which kind of capital is being asked to carry which kind of risk. Commercial lenders finance proven assets with predictable cash flows. First-of-a-kind projects carry technology, market and demand risk, requiring a different mix of corporate, public and catalytic capital. The aim is to take out enough risk that a project can eventually stand on its own.

Finally, collaboration has to become **practical**. One thing we have learned at GIC is that broad conversations about carbon reduction or circularity achieve very little. Companies engage when the problem is specific, the commercial barrier is understood, and everyone is clear about what they are bringing to it.

“When leaders gather at ADIPEC, technology, infrastructure and investment will rightly dominate the conversation.”

Getting companies into the same room is the easy part. The harder work is building a structure in which risks can be shared, decisions made and projects moved forward. That is particularly relevant in the Gulf, where major industrial operators, infrastructure providers, investors and customers sit close together. The opportunity is to use that proximity not only to demonstrate new technologies, but to build commercial models that allow them to scale.

When leaders gather at ADIPEC, technology, infrastructure and investment will rightly dominate the conversation. But a successful pilot does not automatically become an investable project. The key questions remain who will buy the output, who takes which risks and whether the economics work at scale.

The projects that scale will not be the ones with the best technology. They will be the ones where someone took responsibility for the commercial architecture early enough for it to matter.

SECTION 5: SOLUTIONS POWERING RESILIENCE & GROWTH

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HALL: 3 | STAND: 3110



Building more resilience into an expanding global energy system

Bjarte Pedersen, Hub Manager for India, Middle East and Africa at **ABB's Energy Industries** division, discusses what he and his company define as resilience and how it applies to a changing energy ecosystem

Energy resilience is sometimes discussed in terms of protecting what we already have. At ABB, we see it as the ability of energy systems to anticipate, withstand, respond to and recover from disruptions, adapt to changing conditions and continue delivering reliable power across industrial and grid environments.

Energy demand is rising, driven by industrial growth, electrification and the power requirements of AI and its supporting data infrastructure. New power generation capacity is being added, supply chains are being rethought, and cross-border interconnections are becoming more significant.

Resilience in this context is also about having the capacity to accommodate the evolving profile of an energy system that now includes solar, wind, nuclear, hydropower, e-fuels and traditional energy sources, without compromising reliability.

That changing profile is particularly visible here in the Middle East. Solar, for example, is already established and is a rapidly growing part of the energy system, with capacity set to increase tenfold by 2035, adding 200 GW. So, the region is adding new capacity while continuing to supply the world using existing energy sources, doing both simultaneously rather than sequentially.

From our perspective, energy security and resilience can be achieved by protecting existing assets, integrating new ones as efficiently as possible, and taking a pragmatic view of the pace at which this can happen. Much of the energy

system that will be operating in 2035 is already built, and extending the life and performance of those assets is one of the most direct contributions that can be made to security of supply.

Control system modernisation is a good example. It can be undertaken in stages at plants that still need to maintain output while upgrades take place. It also improves cyber security and visibility, while deferring capital expenditure that would otherwise be required for replacement.

Much of this work starts with understanding the condition of existing infrastructure. When operators have a clear, data-driven picture of how their equipment is performing day to day, they can plan maintenance before a failure occurs rather than afterwards. This allows them to prioritise investment where it will make the greatest difference to reliability and cost.

Integration is equally important as variable power generation changes how a system operates. Storage, flexible generation, grid code compliance and responsive automation are what make a higher share of renewable energy dependable. In practice, this means planning grids, storage and control systems together from the onset, ensuring that renewable capacity strengthens the wider system rather than adding strain to it.

The same applies offshore and along pipelines, where electrification, condition monitoring and remote operations can help reduce emissions and exposure to single points of failure. AI, while creating significant new demand, is also one of the best tools available for managing and



optimising that demand. ABB is working with customers on the electrical and automation infrastructure that AI data centres need to draw power reliably, as well as on the digital systems that help plants and grids operate as efficiently as possible.

The future energy landscape does not, and should not, rest on a single technology or solution. This is an ‘and’ rather than an ‘or’ moment. Oil and gas, LNG, solar, nuclear, hydropower, wind, e-fuels and carbon capture and storage will all be part of the future energy system, although their contributions will differ from one country or region to another. What they share is a dependence on the same enabling layers – automation, electrification and digital systems that allow each to operate reliably, securely and efficiently.

ABB’s portfolio in nuclear power, for example, demonstrates how our solutions work across the sector. We are partnering with operators of existing assets to modernise decades-old plants, extending their operational life and reliability, and maintaining low-carbon capacity without new construction. We are also working with the developers of new technologies, including small modular reactors (SMRs) where standardised, repeatable designs require equally consistent approaches to automation and electrification if they are to scale.

None of this depends on technology that does not yet exist. The technology is ready, but the conditions surrounding its deployment – investment, skills, regulation

“Oil and gas, LNG, solar, nuclear, hydropower, wind, e-fuels and carbon capture and storage will all be part of the future energy system, although their contributions will differ from one country or region to another.”

and confidence – will determine how it can be used. These conditions will differ across regions.

Skills deserve attention, too. The workforce operating plants needs to be able to work confidently across automation, electrification and digital tools. Building that capability locally, through training and close collaboration between suppliers and operators, is as important to resilience as any piece of equipment. At ABB, we are technology leaders, but we recognise that a resilient energy system will be delivered by people, and not technology alone.

ADIPEC’s theme – ‘Where Energy Opportunity Takes Shape’ – describes what is already happening across this region. Opportunity takes shape when a system is reliable enough to build on, and progress comes from recognising where we are, not only where we want to be in future.



Resilience that takes shape: from local factories to trusted data

Arab Development explains how trusted partnerships, local manufacturing and verified energy intelligence are turning global innovation into UAE energy resilience, and unveils two new ventures: Context Labs MENA and 22/x

Recent geopolitical tensions have shown how quickly disruption to critical energy corridors can ripple through the global system. Resilience can no longer be measured by production capacity alone. It must be defined by continuity, reliability and security across the entire value chain.

At the same time, the rapid growth of power-intensive industries, particularly artificial intelligence and data centres, is adding new demand for electricity and the infrastructure behind it. Meeting it requires more than physical assets. It requires trusted partnerships that strengthen supply chains, connect markets and bridge global expertise with local opportunity.

Bridging global expertise and local markets

As an ADNOC-approved local partner, Arab Development enables international companies to access the UAE's highly regulated energy market without the time, cost and complexity of building a local presence alone. Through strategic partnerships and joint ventures, we create practical pathways for global technology to serve the UAE's industrialisation agenda, and contributing to the National In-Country Value (ICV) Programme and Make it in the Emirates.

“Trusted data is critical infrastructure. With Context Labs MENA, the region's energy can be measured, verified and proven at the source.”

Dan Harple

Founder and CEO, Context Labs

Resilience, made in the Emirates

Our portfolio companies show this model in action:

- **TAQANA Energy Solutions** (JV with Schneider Electric) manufactures switchgear, energy management and automation systems in ICAD, localising the electrical equipment that grids, oil and gas facilities and AI data centres depend on, while shortening lead times and reducing import exposure.
- **SOLUS** (JV with Oceaneering) delivers ROV, robotics and digital inspection solutions that improve uptime and reduce risk across offshore platforms, pipelines and subsea assets.
- **Gulf Compound Blending** in KIZAD upcycles post-industrial and post-consumer polymers into qualified, high-value compounds, building circular, domestic feedstock security for UAE industry and extending an export channel to global polymer markets.

Announcing Context Labs MENA

AI is both a driver of new demand and one of the best tools for managing it, but resilient energy systems run on trusted data. Arab Development is proud to announce a joint venture with Context Labs and the establishment of Context Labs MENA.

Context Labs' AI-enabled Decarbonisation-as-a-Service (DaaS) platform, built on its Immutably data fabric, brings together data from SCADA systems, sensors, satellites and drones to produce verified, asset-grade data. Already deployed across a significant share of the US natural gas supply chain, it gives operators equipment-level visibility of emissions and performance from wellhead to end use. Context Labs MENA will bring this capability to the region's producers, utilities and data-centre operators, helping them prove the integrity of their energy, meet evolving market and regulatory requirements, and protect access to global export markets.



“Our role is to turn global innovation into local capability, and local capability into lasting national resilience.”

Yousif Al Nowais

Chairman and Managing Director,
Arab Development

Introducing 22/x

Arab Development also announces the establishment of 22/x, an AI-native platform founded by the Al Nowais family in Abu Dhabi. 22/x is designed to scale more than 800 global portfolio companies into the Middle East through four verticals: advisory, infrastructure, investment and incubation, with a focus on AI and critical infrastructure.

The platform is chaired by Yousif Al Nowais, Chairman and Managing Director of Arab Development, with Mohammed Yousif Al Nowais, who also holds leadership roles across Arab Development, TAQANA and Gulf Compound Blending, on its Board, and Ahmed Nasser Al Nowais as Chief Executive Officer. Together, they will channel the group's legacy relationships, infrastructure and capital into the next wave of energy and industrial technology.

Where energy opportunity takes shape

From switchgear made in Abu Dhabi to subsea robotics, circular materials and verified energy data, our partnerships are strengthening every layer of the UAE's energy system. At ADIPEC 2026, Arab Development invites partners to explore how these solutions can help build a stronger, more secure and more resilient energy future.

Visit Arab Development at ADIPEC 2026, Hall 5, Stand 5240.

The shift from energy strategy to robust infrastructure

Harish Muhammed Bashir, Chief Executive Officer, **Excel Astra Engineering and Construction**, explains how integrated EPC delivery, local capability, and digitalisation can strengthen energy infrastructure and improve project certainty

As global energy demand continues to rise, resilience is becoming as important as capacity. Energy infrastructure must not only deliver more energy, it must also withstand supply chain disruption, changing market conditions, compressed project schedules, and increasingly complex operating environments.

At Excel Astra Engineering & Construction LLC (ASTRA), we believe energy resilience begins with execution capability. Since our establishment in 2018, ASTRA has developed into an integrated EPC organisation supporting the energy and industrial sectors across engineering, procurement, fabrication, construction, commissioning, operations and maintenance. Our development has been guided by a clear philosophy: build capability before opportunity.

Integration as a resilience strategy

A significant execution risk on major energy projects is fragmentation. Multiple interfaces between engineering, procurement, fabrication, construction and commissioning can create delays, dilute accountability and increase exposure to supply chain and execution risks. ASTRA's integrated delivery model is designed to reduce these interfaces.

“The objective is not digitalisation for its own sake, but better decisions, earlier visibility of risk and more predictable project outcomes.”

By bringing critical project capabilities together within one organisation, we can improve coordination, accelerate decision-making and maintain greater control over project execution. Our engineering centres,

fabrication facilities, multidisciplinary construction resources, offshore and marine capabilities and growing O&M platform allow us to support projects from engineering and procurement through fabrication, construction, commissioning and operations. This approach is particularly relevant to fast-track, brownfield and complex energy projects, where constructability, shutdown coordination, resource availability and schedule certainty are critical.

Strengthening supply chains through local capability

Recent global disruptions have reinforced an important lesson that energy security is closely connected to supply chain resilience. Building strong regional engineering, manufacturing, fabrication and construction capabilities can reduce reliance on distant supply chains and enable faster responses when market conditions change.

ASTRA continues to invest in people, engineering capability, fabrication facilities, construction resources, technology and strategic supply chain relationships. These investments strengthen our ability to execute critical scopes closer to where energy infrastructure is being developed and operated.

Today, ASTRA supports the delivery of onshore and offshore facilities, process plants, pipelines, well-related infrastructure, civil and structural works, modular facilities, mechanical and electrical systems, and associated energy infrastructure.

For clients, localisation therefore represents more than local content. It can support schedule certainty, execution flexibility, and long-term energy resilience.

Digitalisation and AI for more predictable delivery

AI and digitalisation are reshaping the energy industry and creating new opportunities to improve the productivity, transparency and predictability of project delivery.



For EPC organisations, one of the most immediate opportunities is to apply these technologies to improve project delivery across the full execution lifecycle. ASTRA is advancing its digital transformation with a focus on integrated project information, engineering and construction productivity, project controls, supply chain visibility and data-driven decision-making. Our focus includes the responsible use of AI to support engineering optimisation, planning, progress analysis, procurement intelligence, risk identification, and operational performance.

Technology, however, must complement engineering judgement and field execution. The objective is not digitalisation for its own sake, but better decisions, earlier visibility of risk and more predictable project outcomes.

Building infrastructure for the next energy era

The evolving global energy landscape requires infrastructure that is reliable, efficient and adaptable. Existing assets must be strengthened and optimised, while new production, processing, pipeline, offshore and supporting infrastructure are developed to meet growing demand.

EPC companies, therefore, have an important responsibility of translating energy strategy and

“At ASTRA, we see resilience as the ability to engineer intelligently, localise strategically, execute rapidly and operate reliably.”

investment into safe, reliable and operational infrastructure. At ASTRA, we see resilience as the ability to engineer intelligently, localise strategically, execute rapidly and operate reliably.

As a Gold Sponsor of ADIPEC 2026, ASTRA looks forward to engaging with clients, technology providers and industry partners on integrated project delivery, resilient supply chains, digital technologies and new execution models that can support energy security and accelerate the delivery of critical infrastructure.

ADIPEC 2026’s focus on “turning opportunity into action” reflects what ultimately matters: translating opportunity into infrastructure, production and long-term value. For ASTRA, that is where resilient execution makes the difference.

Enabling resilience through local manufacturing and industries

As a group operating in a range of diversified business segments, **ATTA Holding** says it has been “lifting and connecting” across the energy sector in the region since 1984. Here it explains its various services and solutions and how they positively impact an industry always on the move

ATTA Holding supports the energy sector through local manufacturing, OCTG services, lifting solutions, inspection and testing, IT services, and industrial support operations across the UAE and Oman. Through its diversified businesses, the group strengthens supply chain resilience, operational safety, asset reliability, and industrial localisation.

OCTG and premium connection services

Through Al Nasr Metal Industries LLC (AMI), ATTA Holding provides OCTG threading and repair, premium connection services, machining, reconditioning, coupling services, and fabrication support. Working with leading connection technologies and industry standards, these capabilities help customers maintain critical assets, support drilling and production operations, and minimise downtime.

UAE manufacturing and fabrication

AMI delivers manufacturing and engineering solutions, including offshore containers and CCUs, pipe racks, steel structures, lifting beams, industrial skids, baskets, and customised engineered products.

By expanding local manufacturing capabilities, ATTA Holding helps reduce lead times, improve product availability, and strengthen regional supply chain resilience.

Lifting, rigging and safety solutions

Through Al Nasr Technical Trading Agencies LLC (ATTA), the group manufactures and supplies wire rope slings, chain slings, webbing slings, round slings, wire ropes, rigging hardware, shackles, hooks, hoists, and height safety equipment. These solutions support safe and reliable lifting operations across oil and gas, offshore, marine, construction, and other industrial sectors.

Inspection and testing services

ATTA Holding's EIAC-accredited Inspection Division

provides independent inspection, testing, certification, and technical verification for lifting equipment and industrial assets. Services include accredited inspection, certification, proof load testing, and break testing.

Supported by dedicated high-capacity horizontal and vertical testing systems, these capabilities help customers maintain compliance, safety, reliability, and operational integrity throughout the asset lifecycle.

Through local manufacturing, technical expertise, innovation, and responsible business practices, ATTA Holding remains committed to strengthening energy resilience and supporting a safer, more reliable, and sustainable industrial future.

Thread protector manufacturing and localisation

As part of its commitment to UAE industrial localisation, ATTA Holding is establishing a dedicated local manufacturing facility for OCTG thread protectors.

The initiative aims to reduce reliance on imports, improve the availability of critical accessories, support drilling and tubular operations, and create additional industrial value within the UAE.

Digital, cybersecurity and support services

ATTA Holding also provides IT and cybersecurity solutions, including cloud and infrastructure services, backup and recovery, surveillance systems, and digital



transformation support. Its advertising and media division delivers exhibition management, branding, marketing, digital content creation, and industrial communications, thereby supporting business continuity and customer engagement.

By expanding local manufacturing capabilities, ATTA Holding helps reduce lead times, improve product availability, and strengthen regional supply chain resilience.

Regional presence

With operations in Abu Dhabi, Dubai, and Oman, ATTA Holding serves customers across regional markets through localised manufacturing, technical expertise, and responsive industrial support.

CSR, community and workforce development

ATTA Holding supports sustainable and inclusive industrial growth through student internships and training, workforce development, educational partnerships, initiatives supporting People of Determination, and knowledge-sharing activities. Its participation in major industry events, including ADIPEC and other sector initiatives, strengthens engagement with industry stakeholders and future talent.

Looking ahead to ADIPEC 2026

During ADIPEC 2026, ATTA Holding is to showcase its capabilities across OCTG services, premium connections, manufacturing and fabrication, lifting and rigging, inspection and testing, thread protector manufacturing, IT and cybersecurity, and UAE industrial localisation.

Through local manufacturing, technical expertise, innovation, and responsible business practices, ATTA Holding remains committed to strengthening energy resilience and supporting a safer, more reliable, and sustainable industrial future. ATTA Holding - lifting and connecting since 1984.



Builders first: engineering for construction and reliable operation

Paul Marsden, President, **Bechtel Energy**, outlines the importance of an early shared understanding with customers and how working through challenges together can lead to decisions that are best for a project

The fundamentals of our mission haven't changed: reliably turn investment into infrastructure that provides secure, affordable energy. The demand for energy keeps rising, driven by global digitisation, electrification and fuel switching, and the disruptions across our industry haven't let up.

At Bechtel, we are builders first. That's not a slogan, it's how we approach every job. We start with the end in mind, make the work buildable, and see it through to a facility that our customer can operate.

Decide how it will be built

Before we commit to an EPC schedule, we need clarity on scope and operating requirements and a credible sequence of construction, completions and commissioning.

We deliver our projects through our integrated self-perform delivery model, where we can uniquely capture the knowledge from our front-line craft professionals. The people who install the equipment will tell you where access is going to be difficult and what needs to happen first, and we have learned there is huge pay-off from engaging our craft professionals early, listening to and acting on their input.

The same goes for our key suppliers. We develop a shared understanding of capacity, quality management systems and lead times before any choices we make become commitments we must live by. A delivery date only means something if the equipment arrives in the condition required and expected, with the information and supplementary materials needed to install it.

An unresolved decision doesn't go away when construction starts. It simply shifts late and into a far more expensive environment, resulting in disruption, frustration, delay and pressure to recover. You can't make an

incomplete design buildable just by throwing more craft professionals at it.

That's why our partnerships with our customers put so much weight on building a shared understanding early, based on trust, honesty and transparency. Challenges may still arise, but when the customer, contractor and suppliers work through them together, we have the complete picture needed to make decisions that are best-for-project.

"We deliver our projects through our integrated self-perform delivery model, where we can uniquely capture the knowledge from our front-line craft professionals."

Make the work ready

Once we're in construction, readiness is very specific: approved drawings, materials, equipment and access, available in the order our people need them. If any one of those is missing, the installation doesn't proceed; and if it does proceed, it will not be done as efficiently.

Engineering information only has value when it enables a safe and productive installation, and procurement progress only counts when a crew can use what has arrived. This is where we're integrating AI into our work processes, to get to that readiness sooner.

On large projects, our engineers review tens of thousands of supplier documents against specifications and general arrangement drawings. AI can take on much of that



repetitive checking, freeing our engineers to focus on the decisions that need expertise and judgement. The aim is simple: get to construction-ready phases earlier, help our people build more, and bring our customers' facilities online sooner (including the infrastructure needed to meet AI's own power demand).

Let me be clear on productivity. We should measure it by the safe, completed work our people deliver. This is about helping our people build more, not replacing craft professionals or simply cutting worker hours. A faster information process matters when it removes a constraint for the people doing the skilled work of building: welding pipe, tying rebar, connecting wire, and so much more.

Sustain the people who build

Across Bechtel's US Gulf Coast LNG projects, more than 16,000 craft professionals are doing that work today. How much they can build depends on the conditions we create for them, and what they learn shapes how we prepare the next project. Bringing new entrants into the craft takes experienced supervision, targeted training and real career

paths that carry people from one project to the next. Holding on to that knowledge is part of delivering the next facility.

When experienced people stay with the team, we keep the hard-won knowledge of how one installation affects the next. Ultimately, our job as builders is to deliver that working asset, so our customer can supply energy to the businesses and communities that depend on it. By engineering to build, that's exactly what we do.

“Bringing new entrants into the craft takes experienced supervision, targeted training and real career paths that carry people from one project to the next.”



Connecting global markets, securing energy supply

BGN combines global trading expertise, integrated logistics, and strategic investments to navigate market volatility, strengthen supply chains and deliver energy reliably across borders

Global energy resilience depends on the industry's ability to adapt, optimise and collaborate to deliver more energy while building systems capable of responding to disruption, volatility and changing demand. This requires more than increasing supply. It requires diversified energy sources, flexible trading networks, modern infrastructure and trusted partnerships connecting producers with customers across borders.

At BGN, resilience is built into every aspect of its global operations. With trading hubs in Geneva, Dubai, Singapore, and Houston, and serving customers in more than 120 countries, BGN connects energy supply with demand across established and emerging markets.

BGN is one of the world's largest LPG traders, with 10% market share of the global LPG market, managing more than 10 million tonnes annually and supplying markets across Europe, Africa, Asia and the Americas. LPG can provide a cleaner and more accessible alternative to higher-emission fuels in markets where energy choices and infrastructure remain limited. At the same time, BGN is diversifying its portfolio and expanding into LNG, sustainable aviation fuel, ammonia, and critical minerals and metals essential to the future energy systems.

Securing supply through integration

Resilient supply chains require visibility and control across the full energy value chain. BGN's integrated logistics network includes a shipping fleet of more than 40 vessels, access to terminals, storage facilities and port infrastructure, and control over critical logistics corridors connecting producers, refineries, industrial partners and end users. This operational depth allows the company to diversify routes, optimise deliveries, and maintain reliable energy flows across global markets.

Continued investment in shipping is strengthening this strategy. In 2026, BGN ordered 10 additional dual-fuel LPG

carriers from HD Hyundai Heavy Industries for delivery by 2029. BGN also formed a partnership with Capital Clean Energy Carriers to charter and operate its first LNG carrier, Amore Mio I, scheduled for delivery in 2027. These investments will provide additional capacity while supporting more efficient maritime operations and the use of lower-emission fuels.

BGN is also strengthening LNG markets through global partnerships. Its recent Heads of Agreement with Glenfarne Global Commodities US provides a framework for the long-term supply of up to one million tonnes per annum of LNG to the world's largest demand centres. BGN is simultaneously developing relationships with LNG capacity owners and pursuing access to terminals and physical storage to support security of supply.

With trading hubs in Geneva, Dubai, Singapore, and Houston, and serving customers in more than 120 countries, BGN connects energy supply with demand across established and emerging markets.

Managing risk through volatile markets

Resilience also depends on disciplined risk management and strong compliance. In volatile commodity markets, disruptions can rapidly affect prices, liquidity, trade routes, freight costs and counterparty exposure. The ability to anticipate these risks and maintain effective controls is essential to keeping energy moving reliably. BGN's risk-management involves real-time monitoring of market exposure and performance. Established



AI and digitalisation are creating new opportunities across energy markets, but their rapid expansion is also adding to increased demand.

governance structures support informed decision-making as market conditions change. This enables BGN to manage volatility while continuing to deploy capital selectively, thereby serving customers and pursuing responsible growth.

Compliance is equally central to operational resilience. BGN works within a risk-based framework aligned with international sanctions and regulatory standards, supported by human oversight and enhanced due diligence where required. As geopolitical and regulatory conditions evolve, this approach helps the business anticipate change and protect relationships with customers and financial partners.

Technology supporting real-world delivery

AI and digitalisation are creating new opportunities across energy markets, but their rapid expansion is also adding to increased demand. Meeting this will require investment in reliable new energy supply and infrastructure.

For BGN, technology is a practical enabler of resilience. Advanced analytics support our trading capabilities, while shipping technologies are used to improve operational reliability, optimise vessel performance and strengthen decision-making. The goal is not digitalisation for its own sake, but better efficiency and responsiveness across all our operations.

The solutions BGN brings to ADIPEC reflect its focus on delivery and strategic growth. The company's diversified supply of energy products, investment in modern shipping, transition fuels and renewables, as well as the development of long-term partnerships across the full energy ecosystem.

By bringing these capabilities together, the industry can transform opportunity into secure and scalable energy flows that keep energy moving safely and efficiently to where it is needed.

Building vital resilience across the entire energy value chain

CNOOC details how it offers a diversified portfolio, technological capabilities and integrated project execution to strengthen energy security and resilience in a changing landscape

Against the backdrop of a reshaping global market landscape, mounting supply chain pressures and continuously rising energy demand, energy resilience has become the bedrock of the industry's steady and sustainable growth.

China National Offshore Oil Corporation (CNOOC), established in 1982 and ranked 65th on the 2025 Fortune Global 500, is China's largest offshore oil and gas producer and operator, with operations spanning more than 20 countries and regions worldwide.

Balancing growing energy demand with long-term security hinges on a diversified and reliable supply system.

CNOOC is committed to strengthening its development foundations by increasing oil and gas reserves and production, creating value, driving industrial transformation through innovation, building competitive advantages through international expansion and supporting long-term sustainability through green and low-carbon initiatives. Through these efforts, CNOOC aims to become a world-class energy and resource group with distinctive maritime capabilities.

Diversifying supply for long-term security

Balancing growing energy demand with long-term security hinges on a diversified and reliable supply system. CNOOC has a diversified asset portfolio and international management capabilities, holding interests in multiple world-class oil and gas projects across more than 20 countries and regions, including Indonesia, Australia, Nigeria, Iraq,

Uganda, Argentina, the United States, Canada, the United Kingdom, Brazil, Guyana and the United Arab Emirates. In 2025, the company was honoured as 'Global Best NOC Explorer', reinforcing its position as a leading global industry player. Meanwhile, CNOOC is actively developing a second growth engine encompassing offshore wind, LNG and new energy, ensuring that resilience stems from a diversified and complementary energy mix rather than reliance on a single commodity.

Resilience through technological innovation

De-risking investments and reinforcing supply chains require indigenous technological capabilities and greater control over critical technologies. CNOOC operates one of the Asia-Pacific region's most formidable offshore service equipment fleets, featuring proprietary advanced systems for logging-while-drilling (LWD), rotary steering, drilling, mud, cementing and workover operations. The 'Xuanji' system, which integrates rotary steerable drilling and LWD, has achieved cumulative global drilling footage of hundreds of thousands of metres.

The company also possesses integrated, large-scale engineering, procurement, construction and installation (EPCI) capabilities for offshore oil and gas, LNG and refining projects. Across offshore and onshore oil and gas production services, CNOOC provides technological and equipment support to maintain and increase production. These capabilities include enhanced oil recovery (EOR), equipment manufacturing, operations and maintenance (O&M), and integrated floating production, storage and offloading (FPSO) services. The company continues to advance technological research aimed at increasing reserves and expanding production, focusing on areas such as EOR, the development of low-permeability reservoirs and heavy oil, and smart oilfields. Advanced geophysics and precision water-injection technologies have achieved large-scale application, while deep-water subsea trees and control systems have made progress towards localisation.



At Iraq's Missan oil field, CNOOC completed the country's first permanently installed fibre-optic well and commissioned an intelligent operations centre. The company has also embedded localisation into its operations, with Iraqi engineers jointly operating equipment and systematic training programmes preparing local employees for key positions. Resilience is a capability built together, not simply hardware exported from one market to another.

Navigating AI's dual challenge

To address the dual challenge of deploying AI while managing its energy consumption, CNOOC is advancing digital intelligence and low-carbon development in tandem. The company is steadily driving digital transformation through its 'AI+' initiative, enhancing the intelligence of oil and gas field operations and improving development and production outcomes.

The 'Deep Sea No. 1' smart gas field was included in China's inaugural list of pilot intelligent factories. Meanwhile, CNOOC's self-developed 'HaiNeng-Aoqin' model has improved efficiency by 30% in key applications, including drilling geological design. CNOOC is also integrating oil and gas operations with new energy technologies, steadily expanding its new energy businesses and advancing green, low-carbon development.

The company has established a critical technological framework for flare gas recovery in offshore fields, while carbon capture and storage (CCS) and carbon capture,

utilisation and storage (CCUS) initiatives continue to progress. The world's first 16MW tension-leg platform (TLP) floating wind project and the Hainan CZ7 wind power project have commenced successively. China's first offshore CCUS demonstration project has begun operations in the South China Sea, while onshore power projects have enabled the substitution of 9.5 billion kWh of electricity with green power.

The 'Deep Sea No. 1' smart gas field was included in China's inaugural list of pilot intelligent factories.

Opportunities for long-term energy security

Through technological independence, a globally diversified portfolio and integrated project execution, CNOOC is transforming energy opportunities into stable, secure and long-term supply, reflecting the ADIPEC 2026 theme, "Where Energy Opportunity Takes Shape".

The company looks forward to exchanging insights with industry partners at ADIPEC 2026 (Hall 9, Stand 9434) and jointly accelerating progress towards a more resilient, secure and sustainable energy future.

Creating the endurance industry assets need with industrial AI

DMS says it is looking forward to working with energy companies, engineering organisations and technology partners to bring AI into the asset lifecycle

Against a backdrop of rising energy demand, shifting supply chains and growing infrastructure requirements, energy resilience has become a strategic priority. New projects, brownfield upgrades and digital technologies are creating opportunities, but long-term value depends on critical energy infrastructure that can be delivered reliably, operated continuously, and adapted as conditions change.

This is where industrial AI can make a difference. For the energy sector, resilience depends on reducing uncertainty in project delivery and asset modification, maintaining reliable operations, and responding faster to unexpected events. Industrial AI can support these objectives, but its value should extend beyond efficiency gains in individual processes. By connecting engineering data, domain knowledge and business workflows, AI can support better decisions and extend the value of digital investments across the asset lifecycle.

The International Energy Agency (IEA) highlighted in its 2026 report that shortages of digital skills, fragmented data, and concerns around data protection, privacy and cybersecurity remain significant barriers to wider AI adoption in the energy sector. Scaling AI therefore requires not only capable models and algorithms, but also a trusted data foundation connecting engineering, asset, operational, and business information.

From reliable delivery to continuous operations

Energy resilience begins during project delivery. AI can be embedded into design collaboration, engineering review and project management to identify issues before they propagate into later stages. Earlier identification can reduce rework, change-related costs and schedule risks, helping projects move from FEED through EPC with greater certainty. Yet the value of digital information should not end at project completion. Engineering conditions, construction changes and quality records, when delivered in a complete,

standardised form, can continue to support operations. This reduces information reconstruction during handover and provides a stronger basis for reliable start-up, maintenance and future modifications.

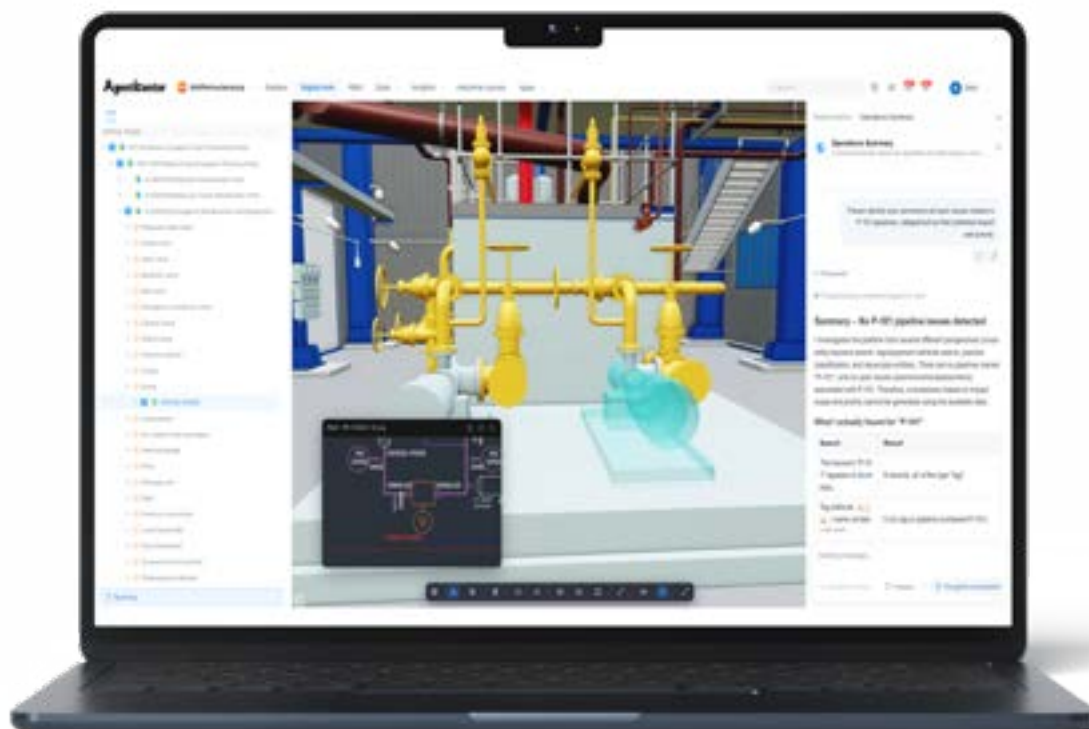
Once an asset enters operation, engineering information must evolve alongside operational, maintenance and modification data. When equipment issues arise, AI can connect engineering conditions, operating changes and historical records to support root-cause analysis and troubleshooting, while retaining the underlying evidence for expert review. Validated domain rules and experience can also be transformed into reusable agent capabilities. The result is a greater ability to understand changing conditions, respond to disruption, and adapt critical assets over time.

AI can be embedded into design collaboration, engineering review and project management to identify issues before they propagate into later stages.

AI-ready data foundation

As AI adoption grows, so does the need to manage the computing resources and power required to support it. Sustainable industrial intelligence is therefore not about deploying more AI applications for their own sake, but about prioritising use cases that improve project delivery, asset reliability and operational response while maximising the reuse of existing data and digital infrastructure.

Energy infrastructure is too critical to fail, so you need AI you can trust. DMS delivers an AI-Ready Data Foundation that connects trusted data, engineering knowledge and business



processes across design, procurement and construction, through commissioning and handover, to operations and maintenance. We are committed to data stewardship and transparency in the age of AI. Through industrial knowledge graphs, trusted Q&A and agent-building capabilities, DMS helps transform fragmented data, domain expertise and business rules into connected, analysable and reusable industrial intelligence.

By connecting existing engineering and business systems and providing reusable data and tool services within defined access controls, DMS enables project stakeholders, AI models and business applications to work from a shared data foundation. This supports information continuity across the asset lifecycle without repeatedly rebuilding the underlying data infrastructure.

Industrial AI applications at AI Zone, P23

At ADIPEC Hall AI, P23, DMS will demonstrate how industrial AI reduces uncertainty and strengthens resilience across the asset lifecycle: from engineering design and capital project execution (EPC, commissioning and handover) to operations, and on to the modernisation of existing assets.

- **Design with Precision:** AI-powered design review catches issues earlier, reducing rework and change.
- **Build on Schedule:** Engineering Document and Model Collaboration serves as both a data hub and a collaboration hub across roles, ending scattered information and version conflicts. Weld Joint Analysis brings every record behind a weld into one view, so quality sign-off is fast and defensible.

- **Deliver with Confidence:** Intelligent Digital Handover automates the most labour-intensive tasks: linking documents to tags, extracting tags and attributes, and reconciling data across sources. AI recommends, engineers confirm, and only verified data enters the system of record.
- **Operate with Certainty:** An intelligent canvas connects process, equipment and operational information to support root-cause analysis and collaborative troubleshooting.
- **Modernise with Efficiency:** AI vision turns legacy P&IDs into intelligent digital assets with over 95% accuracy, cutting conversion time by 75%.

DMS looks forward to working with energy companies, engineering organisations and technology partners to keep engineering data useful beyond handover, make knowledge reusable, and bring AI into the asset lifecycle.

When engineering data continues to create value, industrial knowledge can be reused, and as AI helps organisations respond to change with greater confidence, digital transformation becomes part of infrastructure resilience. This is where energy opportunity takes shape.

DMS provides an AI-Ready Data Foundation that connects trusted data, engineering knowledge and business processes across engineering, construction, handover, and operations.

From disruption to decision: a new approach to resilience

A connected decision system can turn fragmented operational data into actionable insight, helping energy companies assess disruption, test responses and strengthen resilience, write **Muhammad Abdullah Khalid, Mehtab Gilani, and Luiz Avelar** of **EY**

Disruption rarely arrives in the sequence a continuity plan imagines. A shipping route tightens. A terminal is constrained. An offshore site must account for its people, while commercial teams still have commitments to protect. Leaders need one trusted operational picture, a way to test options quickly and the confidence to act.

That was the challenge for an energy major in the GCC during live regional disruption. The questions were practical and human. Which production positions remained available? Which customers were exposed? Could vessels be reassigned and people returned safely? Technology was built around those questions with one objective: shorten the distance between what's happening and what must happen next.

The SCOPE loop

We use a closed decision loop to connect those questions to action. SCOPE stands for Sense, Calculate, Optimise, Put into action and Evolve. Rather than a framework laid over technology, it reflects how the platform brings together the operating picture, network model, response options and the continuity process.

S: Sense

The problem is rarely a lack of data. It is that data sits in different systems and arrives at different speeds, meaning the picture can be stale before it is complete. The platform brought production, inventory, demand, critical people, spares and suppliers into one view, alongside evacuation monitoring and vessel tracking. Sense provides a common starting point, with gaps visible.

C: Calculate

Knowing a facility is unavailable is not the same as knowing the consequence. The network model represented more than 250 facility-level nodes and the flows between them, allowing a scenario to constrain a

facility and calculate the impact across connected assets. Linear optimisation maintained mass balance and modelled constraints: the engine could not invent material, exceed capacity or route product through an unavailable connection. A scenario could be resolved across all 250-plus nodes in a single pass, replacing days of manual reconciliation with a same-session result, and expressing exposure in terms leaders could make decisions.

“Resilience is ultimately measured in people, not platforms. The question is no longer whether the next disruption will come, but whether an organisation can see it, calculate it, and act before options narrow.”

O: Optimise

Understanding the impact still leaves a decision to be made. Drawing down inventory, adjusting production, calling on third-party supply or redirecting flows each protects something different.

The optimisation engine compared feasible responses within the model's physical rules, preferring available inventory and production adjustment, followed by backup supply, before accepting unmet critical demand. While a dashboard can show demand is at risk, optimisation calculates which combination of levers can reduce that exposure. The discipline lies in the objective function, which the solver minimises across the network. Unmet critical demand carries the heaviest penalty and is therefore the last resort. Take a gas train offline and every flow through that node goes to zero, with the shortfall propagating downstream. The result is not



simply that “the refinery is affected” but a reproducible assessment of volume lost, demand exposed and inventory consumed.

P: Put into action

The affected value chain, product impact, inventory position and scenario comparison sat within one decision environment, enabling teams to coordinate operational, logistics and people decisions. The platform does not automate command decisions. For evacuation, for instance, it supports awareness and coordination while authorised leaders retain authority.

This model also extends further. A metaheuristic search layer can wrap around the optimiser, generating candidate responses and submitting each for feasibility verdict before evolving the next generation. This allows thousands of options to be explored rather than the handful a planner may have time to specify. The search proposes, the optimiser establishes physical feasibility, and accountable leaders decide.

E: Evolve

Scenario inputs and outputs can be retained and rerun, while preparedness measures such as recovery time objectives and inventory cover can be reviewed against outcome. Teams can

“Visibility without calculation is not foresight, while action without learning recreates the same uncertainty next time.”

then assess whether an intervention strengthened resilience, or simply moved the constraint elsewhere.

From continuity to strategic advantage

The stages only work when connected. Visibility without calculation is not foresight, while action without learning recreates the same uncertainty next time. Applied ahead of an event, the loop can also de-risk investment. A proposed pipeline, storage expansion or corridor can be stress-tested before capital is committed, making resilience a design variable rather than a statement of intent.

Resilience is ultimately measured in people, not platforms. The question is no longer whether the next disruption will come, but whether an organisation can see it, calculate it, and act before options narrow.



Shaping the future of energy with decarbonisation solutions

GE Vernova's technology base helps generate about a quarter of the world's electricity and the company is back at ADIPEC to showcase technologies, services, and partnerships it says can help move the industry further forward

The global energy system is entering a defining era. Around the world, electricity demand is rising driven by industrialisation, advanced manufacturing, urban growth, the electrification of transport and buildings, and the rapid expansion of AI-enabled data centres.

For the energy sector, this is not simply another growth cycle. It is a long-term investment super-cycle, one that requires the industry to deliver more power, more reliably, and with greater resilience and lower emissions at the same time.

GE Vernova believes meeting this moment will require an all-of-the-above approach: one that expands access to affordable and secure electricity while accelerating decarbonisation.

GE Vernova was purpose-built for this challenge. With a technology base that helps generate approximately 25% of the world's electricity, more than 95% of transmission utilities worldwide equipped with our solutions, approximately 85,000 people around the world, and capabilities spanning power generation, transmission, distribution, software, and services, we work with customers to strengthen the systems that modern economies depend on. Our mission is clear: to electrify the world while we decarbonise it. That means helping utilities, industries, and governments build energy systems that are not only sustainable, but also reliable, flexible, and secure.

Critical infrastructure will be central to the next phase of energy progress. Resilience and long-term energy security start with infrastructure that can adapt to changing demand and changing risk. Expanding generation alone is not enough; grids must be modernised, storage integrated, and transmission networks made more intelligent and more secure. Across the world, energy sector players are looking for ways to de-risk investments, secure vulnerable supply

chains, and move faster on critical projects.

GE Vernova supports this through a combination of installed-based expertise, service capabilities, global manufacturing, and a broad technology portfolio. Our integrated approach - across gas, nuclear, wind, hydro, carbon capture, hydrogen, grid solutions, software, and more - helps customers make practical decisions today while preserving optionality for tomorrow. In an environment shaped by geopolitical uncertainty and fast-growing load, that flexibility matters.

Resilience and long-term energy security start with infrastructure that can adapt to changing demand and changing risk.

Solutions value in focus

At ADIPEC 2026, we are at stand 7135 in hall 7 with focused areas on electrification and decarbonisation solutions, showcasing the technologies, services, and partnerships that can help move the industry forward - from more flexible generation and resilient grid infrastructure, to digital tools that improve visibility, efficiency, and operational confidence.

One highlight at the stand related to power generation is our H-class gas turbine technology, which has set world records for efficiency, and is engineered to be "future-ready" with configurations for post-combustion carbon capture and hydrogen-blending capabilities of up to 50% by volume. On grid modernisation, we feature solutions such as the GridBeats™ APS (Automation and Protection System), as well as GridOS® Grid



Orchestration Software, which comprises monitoring, control, and communications technologies that help utilities and industrial customers enhance reliability, resilience, and operational visibility.

Our decarbonisation-focused offerings designed to support emissions reduction goals that are being

showcased include direct air capture, exhaust gas recirculation, hydrogen-enabled gas power applications, SF6-free and alternative gas-insulated grid technologies, GRiDEA™, CERius™, LM2500 H2, and advanced switchgear solutions. Interactive experiences at the stand will demonstrate how these technologies can help customers modernise infrastructure and support a more secure and sustainable energy future.

Across the world, energy sector players are looking for ways to de-risk investments, secure vulnerable supply chains, and move faster on critical projects.

Just as important as any individual technology is the mindset behind it. The scale of today's challenge calls for collaboration across borders, sectors, and value chains. It calls for pragmatic solutions that meet near-term needs while building long-term resilience. And it calls for an industry willing to be bold enough to build an energy future that is more secure, more sustainable, and more inclusive than the one we inherited. That is the work ahead - and GE Vernova is proud to be part of it.



A green dashboard doesn't always mean a healthy project

Michael Deighton, Senior Vice President, Operations at **Kent**, explains why looking beyond performance metrics is critical to identifying emerging risks and strengthening project delivery

We have become very good at measuring project progress. With increasingly sophisticated reporting systems, we can track cost, schedule, engineering, procurement, and risk in extraordinary detail. Yet one question remains surprisingly difficult to answer: how healthy is the project?

I've seen projects reporting healthy progress while significant delivery challenges were developing beneath the surface. Engineering might be meeting its completion targets, but outstanding technical queries could be affecting procurement. Construction activities might be progressing to schedule, while unresolved interfaces threaten the next phase of work. The individual reports aren't necessarily wrong, but each tells only part of the story.

For me, this presents one of the biggest opportunities in project management today. We have the information and, increasingly, we have the technology to connect it. We also have decades of delivery experience to help us understand what it means. The challenge is bringing those elements together to improve decision-making. Major projects are complex because everything is connected. A delay in engineering can affect procurement, construction sequencing, productivity and ultimately cost. Experienced project professionals

understand these relationships, but they're not always apparent in conventional reporting.

Consider a project where engineering progress is on target and procurement reports that purchase orders have been placed as planned. Both indicators might be green. However, if critical vendor information arrives late, engineering deliverables may need revising, potentially disrupting construction. The warning signs exist but sit across different disciplines and reporting systems. Traditionally, identifying these connections has involved reviewing large volumes of information, comparing reports and recognising inconsistencies. It's valuable work, but time-consuming, particularly on projects involving multiple contractors and thousands of interdependent activities.

This is where technology offers significant opportunities. Advances in digital platforms, analytics and artificial intelligence are changing what we can do with project information. By connecting data from different disciplines, we can examine the relationships between activities rather than simply measuring their individual progress. AI-enabled analysis can identify patterns, highlight inconsistencies and draw attention to emerging risks that might otherwise take considerable effort to uncover. It also creates opportunities to apply lessons from previous projects and assurance reviews to current challenges. The earlier we recognise a potential problem, the greater our opportunity to influence the outcome.

But the real value lies in turning that information into something useful for decision-makers. A system might highlight a growing difference between planned and actual progress. Understanding whether that represents a temporary disruption, a weakness in the baseline or a fundamental delivery problem requires closer examination of the circumstances. Technology can help direct our attention, while experience helps

"Recognising an emerging risk is valuable, but the real benefit comes from understanding its consequences and knowing what to do about it."



us understand what we're looking at. One thing I've learned about major projects is that the assumptions behind a plan deserve as much attention as reported progress. A schedule may be mathematically sound but based on unrealistic productivity expectations. A cost forecast may be accurate against the current scope while overlooking the consequences of unresolved technical issues. These are questions experienced delivery professionals are accustomed to asking. Better connected intelligence allows them to test assumptions, understand dependencies and focus attention where further investigation is needed. It also makes constructive challenge more effective. Rather than relying solely on experience or instinct, project teams can explore concerns using evidence drawn from across the project, strengthening conversations between owners, contractors, and delivery teams.

Ultimately, understanding project performance is about making better decisions while there's still time to influence the outcome. Recognising an emerging risk is valuable, but the real benefit comes from understanding its consequences and knowing what to do about it. That might mean challenging a contractor's recovery plan, revisiting an unrealistic baseline or strengthening governance and controls to prevent similar issues recurring.

“As our ability to connect and analyse information improves, we can move beyond reporting what has happened towards understanding what may be developing and where intervention could make a difference.”

I believe this is where project management is heading. As our ability to connect and analyse information improves, we can move beyond reporting what has happened towards understanding what may be developing and where intervention could make a difference. That doesn't diminish the importance of established project controls or experienced professionals. It makes both more valuable by providing a richer understanding of project performance. The next time a dashboard shows everything in green, I'd be encouraged by the result. But I'd be even more interested in what the information behind it tells us about the work ahead.



Tangible commercial solutions that deliver national energy impact

KNOC is driving operational safety and innovation by integrating physical AI and digital twin solutions, empowering smarter energy choices through big data and AI analytics, and utilising its strategic petroleum reserves

Founded in 1979 in the wake of global energy crises, Korea National Oil Corporation (KNOC) has stood as the bedrock of South Korea's national energy security for nearly five decades.

Headquartered in Ulsan, South Korea, KNOC was entrusted with a pivotal mission: to ensure an unshakable supply of energy for an industrialised economy that relies on overseas imports for more than 95% of its primary needs. Today, amid geopolitical volatility, supply chain reorganisations, and surging structural power demands, energy resilience has emerged as the defining imperative for the global energy ecosystem.

At ADIPEC 2026, where energy opportunity takes shape, KNOC is demonstrating how national oil companies can balance foundational supply security with next-generation digital innovation.

Backed by ongoing system advancements and accumulating field know-how, KNOC continues to strengthen its capabilities to share field-proven operational safety solutions with global industry partners.

Fortifying critical infrastructure

At the core of KNOC's resilience mandate is South Korea's Strategic Petroleum Reserve (SPR) programme. KNOC owns and operates nine state-of-the-art stockpiling terminals nationwide, commanding a total crude oil and petroleum product capacity exceeding 146 million barrels.

This strategic buffer insulates the domestic economy from international chokepoints and unforeseen supply disruptions.

Crucially, KNOC translates physical stockpiling capacity into proactive, cross-border energy diplomacy. Through strategic joint stockpiling partnerships with key producing nations in the Middle East and worldwide, KNOC optimises storage asset utilisation while establishing close, long-term cooperative partnerships with global energy producers. These collaborative initiatives maximise operational efficiency across terminal networks and reinforce bilateral ties between producing and consuming nations.

Next-gen smart stockpiling

To reinforce the safety and reliability of its critical infrastructure, KNOC is actively accelerating the transition of terminal operations across its nationwide stockpiling network by integrating physical AI and digital twin technologies. Through its proprietary Digital Twin Monitoring System, currently under continuous advancement, KNOC bridges physical terminal assets with digital models to transition towards real-time facility monitoring, predictive diagnostics, and data-driven maintenance.

Complementing these virtual models, KNOC is progressively implementing a 24/7 Intelligent Surveillance Matrix across its facilities.

By deploying autonomous robotics, industrial drones, AI-powered CCTV, and smart industrial wearables, the corporation is building a robust framework to preemptively detect, mitigate, and prevent high-risk operational hazards before incidents occur.

Backed by ongoing system advancements and accumulating field know-how, KNOC continues to strengthen its capabilities to share field-proven operational safety solutions with global industry partners.



AI-driven public energy services

True energy resilience extends directly to public benefit and market transparency. KNOC delivers advanced petroleum data intelligence powered by big data and AI analytics, helping users optimise their energy consumption while continuously elevating service reliability.

KNOC is proud to be presenting these tangible commercial solutions under the unifying vision that true resilience breeds new opportunity.

A central highlight of this initiative is the ongoing implementation and rollout of the AI Contact Centre (AICC) within South Korea's premier fuel pricing platform, Opinet. By integrating state-of-the-art AI voicebots and interactive chatbots, KNOC is establishing a streamlined, efficient system for public inquiries and retailer price reporting. This intelligent architecture is being engineered to guarantee 24/7/365 uninterrupted petroleum market

intelligence and fundamentally elevate overall public service quality.

Shaping opportunities at ADIPEC 2026

On the stage of ADIPEC 2026, KNOC presents a successful milestone of a national energy enterprise transitioning its critical assets into future-ready, advanced infrastructure amidst physical supply chain shocks and geopolitical uncertainties.

The corporation is committed to elevating its longstanding friendships and strategic partnerships with core producing nations across the UAE and the wider Middle East to a higher level, taking the lead in fostering a resilient, transparent, and technology-driven global energy ecosystem for the decades ahead.

This participation marks a vital turning point that extends beyond a technology showcase to substantially broaden mutual and tangible business cooperation with leading producing nations and major energy institutions. Building upon proactive innovation and partnership, Korea National Oil Corporation remains dedicated to serving as an unshakeable bulwark for national energy security, while faithfully fulfilling its role as a trusted, robust global bridge connecting producing and consuming nations for shared prosperity in a rapidly shifting energy landscape.

Integrating capabilities and advancing energy solutions

Mazrui Energy is bringing together local capabilities, advanced technologies, and strategic partnerships to deliver integrated solutions that strengthen operational efficiency and support the UAE's energy ambitions

For more than 50 years, Mazrui Energy has supported the UAE's oil and gas industry, building a strong foundation of local expertise, customer relationships, and operational capability.

Today, the company is evolving into an integrated energy solutions provider, bringing together complementary businesses through its One Mazrui strategy while investing in localisation, technology and partnerships to support the UAE's energy ambitions.

Discussing long-term strategies to ensure energy security and affordability, Danny Fournel, Director at Mazrui Energy, says: "Energy security requires resilient supply chains, strong in-country capabilities and efficient access to critical products and services."

Localisation is central to the company's strategy. "By expanding local manufacturing and technical capabilities, we can reduce import dependency, shorten supply chains and contribute to the UAE's In-Country Value and industrial development objectives," he continues.

The greatest opportunity for artificial intelligence (AI) is moving from experimentation to delivering real operational value by improving efficiency, reliability, safety and decision-making across the energy value chain.

Through One Mazrui, the company is also integrating its capabilities across petrochemicals; engineering and

fabrication; inspection, repair, maintenance and services; digitalisation and AI and clean energy. This integrated approach will be instrumental in addressing customer requirements more comprehensively while supporting a stronger domestic energy ecosystem.

Discussing the trends or innovations likely to have the greatest impact on the energy industry over the next decade, Fournel, says, "Alongside digitalisation and automation, I believe asset lifecycle management will become increasingly important. Operators are looking to maximise equipment availability, extend asset life and use resources more efficiently."

To address this need, Mazrui is developing a dedicated Inspection, Repair, Maintenance & Services vertical, bringing complementary services together under an integrated model. This will help customers reduce long lead times, optimise resources and achieve faster response times for critical equipment.

Combining these services with advanced inspection, predictive technologies and data-driven maintenance can also enable a shift from reactive intervention toward more proactive asset management.

Turning AI into operational value

The greatest opportunity for artificial intelligence (AI) is moving from experimentation to delivering real operational value by improving efficiency, reliability, safety and decision-making across the energy value chain, according to Fournel.

"At Mazrui Energy, we are applying AI and digital technologies in practical ways. With LivNSense, we are developing an AI Optimiser that uses operational data and AI/ML to predict process outcomes and support plant optimisation. We are also driving broader digital transformation through integrated platforms that enhance logistics, mobility management and



operational visibility.” Through its Soothsayer Mazrui joint venture and partnerships with companies such as Voovio, Axellec, Oliasoft, Horizon56 and Exebenus, the company is bringing AI, advanced analytics and digital solutions to areas including digital training, well planning, drilling optimisation and intelligent operations.

“Our focus is to combine deep industry expertise with the right technologies and partners to deliver measurable business outcomes. Ultimately, AI should augment human expertise, enabling faster, safer and better-informed decisions,” Fournel continues.

A new chapter of integration

The company’s evolution from Mazrui Energy Services to Mazrui Energy represents an important milestone and reflects its ambition to become a broader, integrated solutions provider. “Under One Mazrui, we are connecting our businesses more effectively and creating a more unified customer proposition,” Fournel explains. “At the same time, we continue to expand through targeted investments and partnerships with industry leaders, combining international technology and expertise with our local execution capabilities and market knowledge.” This model allows the company to introduce new solutions efficiently while continuing to build capabilities within the region.

ADIPEC 2026

“ADIPEC is an important platform for industry collaboration and for exploring how the sector

Mazrui Energy is developing a dedicated Inspection, Repair, Maintenance & Services vertical, bringing complementary services under an integrated model.

can respond to changing customer and market requirements,” adds Fournel. “I am particularly interested in discussions around energy security, localisation, supply chain resilience, AI, operational efficiency and the future of energy services.”

The event also provides an opportunity to strengthen existing relationships and identify new technologies and partnerships that can support our customers and the UAE’s broader energy and industrial ambitions.

Building on five decades of serving the UAE energy industry, Mazrui Energy is entering its next chapter with a clear ambition: to become an integrated, technology-enabled energy solutions provider.

By strengthening local capabilities, investing in innovation and bringing together the right expertise and partnerships, Mazrui Energy aims to deliver greater value to customers while contributing to a more resilient and efficient energy future.

Rooted locally, growing globally for continuous flow of energy

NMDC Energy is strengthening local fabrication, supply chains and technology capabilities to support reliable project delivery amid global uncertainty

In the corporate world, resilience is often defined as the ability to withstand disruption, adapt to change, and emerge stronger. For the oil, gas, and energy sectors, resilience has become far more than a business principle. It is a strategic necessity.

In an industry shaped by global market fluctuations, technological transformation, geopolitical shifts, evolving regulations, and increasingly complex supply chains, resilience is what enables companies to continue delivering energy safely, reliably, and efficiently, regardless of the challenges they face.

Today, resilience is no longer measured solely by an organisation's ability to recover from setbacks. It is demonstrated through preparedness, adaptability, and the capacity to build systems that can withstand uncertainty before disruption occurs.

Stronger foundations for long-term growth

One of the clearest examples of this evolution is the industry's growing commitment to local-first production and fabrication. Across energy markets, operators are placing greater emphasis on strengthening domestic industrial capabilities. Local manufacturing, fabrication yards, and in-country value initiatives help reduce dependence on distant suppliers while ensuring critical equipment and services remain accessible when international logistics are disrupted. Beyond operational benefits, these investments create sustainable economic value, develop local talent, and establish stronger foundations for long-term growth.

NMDC Group's energy EPC arm NMDC Energy has been consistently building up its fabrication assets. By operating the Mussafah Fabrication Yard in the UAE, the largest fabrication yard in the GCC at over one million square metres, along with its Pipe Coating Yard and NE Modules Yard, NMDC Energy brings complex fabrication entirely in-house. These capabilities are supported regionally

by the state-of-the-art 400,000 sqm Ras Al Khair yard in Saudi Arabia. Together, the four yards produce an annual fabrication capacity of 100,000 MT.

However, even with expanded local capabilities, supply chain resilience remains a defining challenge. The energy sector relies on vast networks of suppliers, contractors, manufacturers, and logistics providers operating across multiple regions. Recent years have highlighted the vulnerability of these interconnected systems. As a result, many energy companies are adopting more agile procurement strategies, allowing for earlier risk anticipation and more effective responses when disruptions occur.

Across energy markets, operators are placing greater emphasis on strengthening domestic industrial capabilities. Local manufacturing, fabrication yards, and in-country value initiatives help reduce dependence on distant suppliers.

The power of collaboration

Yet resilience cannot be built in isolation. The industry's most significant achievements have often been the result of collaboration. Strategic partnerships between operators, contractors, suppliers, research institutions, and technology providers play a crucial role in strengthening the sector's collective ability to navigate change. By sharing expertise, aligning objectives, and coordinating efforts across the value chain, organisations can reduce risk while accelerating innovation. The strength of the industry increasingly depends not only on individual performance but also on the resilience of the broader



ecosystem in which companies operate.

This collaborative approach is especially evident in research and development. The shared goals of energy transition and decarbonisation are too complex for any single organisation to solve alone. Shared research initiatives allow companies to test emerging technologies and accelerate solutions that benefit the entire sector. Whether developing more efficient fabrication techniques, improving asset reliability, reducing emissions, or advancing digital infrastructure, collective innovation creates advantages that extend well beyond individual organisations.

Technology is also redefining what resilience looks like in practice. As an Industry 4.0 Digital Leader, certified by the UAE Ministry of Industry & Advanced Technology, NMDC Energy has implemented a suite of technological tools including AI, automation, digital twins, and smart safety solutions. These capabilities improve operational continuity while enhancing safety, efficiency, and cost management.

The next chapter of the energy industry

For organisations such as NMDC Group, resilience is reflected in the ability to deliver complex projects while

adapting to an evolving energy landscape. But the broader lesson extends beyond any single organisation. The future of the energy industry will belong to those who view resilience not as a response to disruption, but as an ongoing commitment to adaptability, innovation, partnership, and sustainable growth.

In an increasingly unpredictable world, resilience has become more than a competitive advantage. It is the foundation upon which the next chapter of the energy industry will be built.

For organisations such as NMDC Group, resilience is reflected in the ability to deliver complex projects while adapting to an evolving energy landscape.

Bridging the gap between SME ambition and growth

Numou, an initiative of Abu Dhabi Global Market, connects SMEs and financing providers through a single digital ecosystem, helping them to access the capital that is needed to deliver on opportunities when it really matters

Energy resilience is often discussed in terms of infrastructure, technology and security of supply. But there is another layer that is equally important – the resilience of the businesses that support the energy ecosystem.

Across the UAE, SMEs play a critical role in energy and infrastructure supply chains. They provide specialist services, equipment, logistics, maintenance, contracting and a wide range of supporting capabilities. Yet for many of these businesses, winning a contract is only the beginning.

Access to finance

The real challenge is often having the financial capacity to deliver it. A business may secure a purchase order from a major corporate or government-linked entity, but still need to fund mobilisation costs, materials, equipment, payroll and supplier payments well before receiving payment from its customer. This creates a working-capital gap that can limit an SME's ability to take on larger opportunities, execute contracts efficiently or scale alongside the industries it serves.

Numou connects procurement and finance, helping create an environment where winning a commercial opportunity can be more closely linked to the financial capacity required to fulfil it.

created to help address this challenge by improving how SMEs access financing across the UAE. Through a single digital platform, businesses can connect with participating financial institutions and financing providers across a range of products, including working capital, invoice financing, procurement financing, and other business financing solutions. The objective is to help SMEs move more efficiently from opportunity to execution. For energy-sector suppliers, this can be significant. A resilient supply chain depends not only on the number of suppliers available, but also on whether those suppliers have the financial strength and liquidity to respond when opportunities arise.

When SMEs are better able to finance growth, purchase equipment, manage working capital and deliver against larger contracts, the entire supply chain becomes more responsive and resilient.

Building a symbiotic ecosystem

If an SME has the expertise to deliver but cannot finance the period between receiving a contract and getting paid, the constraint is not operational capability; it is financial capacity.

Numou aims to reduce this friction. By bringing financing providers into a single digital ecosystem and helping SMEs submit structured information through one journey, the platform can make it easier for businesses to explore multiple financing options while enabling participating financiers to access more standardised borrower information.

Strengthening access to finance is therefore an important part of strengthening supply chain resilience. Numou, an initiative of Abu Dhabi Global Market, was



Over time, this creates an opportunity to make SME financing increasingly data-driven.

Better access to business data, financial information and transaction history can help reduce some of the information gaps that traditionally make SME lending more difficult. For financing providers, stronger data can support more efficient assessment. For SMEs, it can mean a simpler journey and greater visibility over the financing options available to them.

Widening the ambit for SMEs

This becomes particularly relevant in procurement-driven sectors such as energy and infrastructure, where SMEs often need financing linked directly to contracts, purchase orders or invoices. Numou is increasingly focused on this connection between procurement and finance, helping create an environment where winning a commercial opportunity can be more closely linked to the financial capacity required to fulfil it.

The broader impact goes beyond individual businesses. When SMEs are better able to finance growth, purchase

equipment, manage working capital and deliver against larger contracts, the entire supply chain becomes more responsive and resilient. Local businesses can participate more effectively in major projects, larger organisations benefit from stronger supplier networks, and economic value is retained and multiplied across the UAE. This is why financial resilience should be considered part of the wider energy resilience conversation.

Opportunities at ADIPEC

ADIPEC 2026's theme, "Where Energy Opportunity Takes Shape", reflects an industry focused not only on identifying opportunity, but also on turning that opportunity into tangible outcomes.

For SMEs across the energy supply chain, access to appropriate financing is one of the foundations that makes that possible. At ADIPEC 2026, Numou looks forward to engaging with energy companies, procurement leaders, financial institutions and ecosystem partners on how financing, data and stronger collaboration can help build a more resilient and capable SME supply chain across the UAE.



The Middle East's ambitions cannot afford these blind spots

Joseph El Bitar, SVP and General Manager Middle East, Türkiye and Africa, **Octave**, says the disconnect between CAPEX and OPEX is ultimately a problem of continuity between knowledge, data and people, and closing it requires different capabilities and accountabilities than the ones that created it

For decades, asset-intensive organisations have managed their businesses through two distinct lenses: CAPEX and OPEX. One funds the future: new plants, infrastructure and expansion. The other sustains the present: operations, maintenance and ongoing performance.

This model became standard practice because it matched the industrial era it served: large capital projects built once, handed over cleanly, and then run steadily for decades. However, as GCC vision programmes place unprecedented pressure on capital projects to convert investment into durable industrial capacity, it is important to understand its weaknesses, the blind spots it can create and the need to adapt the model to the region's new industrial age.

Delivering plants that deliver value

The problems caused by the divide between projects and assets in asset-intensive industries have been evident and documented for some time. In fact, leading actors in the region, such as national oil companies, have challenged that model in the past decade, through stronger integration mandates, shared platforms, and digital twins that connect projects to assets.

“What we see more and more in successful projects across the Middle East is a common digital backbone connecting design, construction and operations.”

The three main places the classic model breaks: First, the divide rewards project delivery over value,

leading to facilities failing to achieve the expected return on investment even a decade after commissioning. The average upstream oil and gas project fails to return as much as 40% of its value estimated at sanction, according to research by the Independent Project Analysis (IPA). A similar gap has been found in other key industries for GCC ambitions, such as metals and mining.

Second, the delivery-led model reduces handover to a compliance exercise. Success is measured by whether large volumes of information have been transferred, usually through PDFs, emails, document registers and close-out packages. That may satisfy a contractual requirement but does not necessarily prepare an operating team to run, maintain and improve the asset.

What we see more and more in successful projects across the Middle East is a common digital backbone connecting design, construction and operations. It is often built around a digital twin platform implemented during construction, with an EAM platform ensuring maintenance plans are live and accurate from day one of operations. The thread of intelligence that runs from engineering model to operational asset is what separates successful ramp-ups from those that struggle for years.

STOs: the risk of blind spots and siloed tools

Thirdly, the divide is most damaging when capital projects happen inside an existing plant: not to build something new, but to transform something already running. The standard model assumes a clean sequence: design, build, commission, operate. However, modern plants evolve continuously through upgrades, retrofits and compliance modifications while remaining in operation. Across the GCC this decade, major refineries and petrochemical facilities have undertaken precisely such transformations: shifting toward higher-value product slates, integrating new process units, meeting cleaner fuel standards or otherwise altering the asset mid-life, long after the original handover occurred.



“The thread of intelligence that runs from engineering model to operational asset is what separates successful ramp-ups from those that struggle for years.”

Even without transformation, the challenges caused by fragmented data and disconnected teams across the project/assets fault line are already visible during shutdown, turnaround and outage (STO) events that see maintenance work and modernisation happen side by side. Without end-to-end supervision and a common platform such as an Enterprise Project Performance tool to coordinate work, these moments are prone to mis-coordination between teams and scope creep, with predictable results: according to BCG, two-thirds of STOs fail to achieve their objectives, incurring high direct costs and significantly impacting long-term value.

Why this matters more in the Middle East - and why it matters now

This challenge exists across asset-intensive industries

globally. But two converging forces make it particularly consequential for the Middle East today. First, the scale of investment is unprecedented. Energy investment in the Middle East reached approximately US\$175 billion in 2024. Infrastructure construction is forecast to grow from US\$204 billion in 2025 to US\$267 billion by 2030. At that scale of investment, the value that can be created by better transitions from project to plant cannot be overstated.

Second, the reconstruction context creates a categorically different risk environment. Across the region, dozens of major industrial facilities, including refineries, petrochemical complexes, power generation assets and water infrastructure, have sustained damage requiring reconstruction.

What makes this categorically different from a standard capital project is that reconstruction does not happen in a clean, sequential environment, but in parallel with ongoing operations: project and operations teams must work side by side on the same physical asset, often sharing the same infrastructure, same utilities and the same safety perimeter.

The CAPEX-OPEX divide, already a structural inefficiency in normal conditions, becomes an acute operational risk when the two worlds are literally co-located and interdependent.



Energy of the future: delivering today, building tomorrow

Berislav Gašo, Executive Vice President Energy, **OMV**, says the company doesn't view the future of energy through the lens of one single technology and favours integration to create value

OMV's theme at ADIPEC 2026 is "Energy of the Future". What does that mean in practice?

It means delivering affordable energy the world depends on today while building the energy system of tomorrow. Reliable, affordable and secure energy remains essential for economic growth and quality of life. At the same time, we need to develop new solutions that support a lower-carbon future. At OMV, we connect both realities through an integrated approach that combines energy security, innovation and long-term value creation.

Energy security remains a major global priority. How is OMV contributing?

Energy security is the foundation of any successful transition. Without reliable supply, industries cannot operate and economies cannot grow. Natural gas continues to play a key role as a bridging fuel and system stabiliser.

We are investing in projects that strengthen supply security and create long-term value. Two important examples are Wittau, Austria, and Neptun Deep, Romania. These projects help provide reliable domestic and regional gas supplies while supporting Europe's energy resilience. We are meeting today's energy needs with tangible, large-scale investments.

What distinguishes OMV's approach to the future of energy?

Integration. We connect energy, fuels, chemicals and circular solutions into one system. This allows us to create value across the entire chain, from resources and infrastructure to products and customer solutions. We do not view the future through the lens of one single technology. The transition requires a portfolio approach. Gas, low-carbon technologies, renewable feedstocks, hydrogen and circular solutions all have a role to play. Our integrated model enables us to develop and scale these solutions while maintaining security, flexibility and competitiveness.

Where do you see the biggest opportunities for future growth?

We are steadily optimising our product portfolio to ensure we continue to meet our customers' needs. Natural gas remains a key enabler of OMV's transformation and is essential to Europe's energy security. We aim to further strengthen our position as a key gas supplier in our core European markets through a reliable and diversified supply portfolio. A good example is OMV Petrom. With Neptun Deep it is becoming a leading market player in natural gas in southeast Europe.

"Our objective is clear: to provide our customers with the energy they need today, while supporting their transition towards a more sustainable energy future."

At the same time, geothermal energy is an exciting growth area; a great example of how existing subsurface expertise can be applied to new energy solutions. In Vienna, together with our partner Wien Energie, we are developing one of Europe's most ambitious geothermal projects, with the goal of providing district heating for up to 200,000 households. We are also expanding our activities to Graz, bringing sustainable heat solutions to more communities in Austria.

How important is customer demand in shaping OMV's strategy?

Customer demand is central to how we shape and evolve our strategy. We continue to see an important role for natural gas in Europe's energy system, supporting security of supply and the flexibility needed as more



renewable energy is integrated. It remains particularly relevant for industry, power generation and heating, where reliable and flexible energy supply is essential. At the same time, customer needs and the energy system are evolving, and so are we. This is why OMV continues to strengthen and diversify its gas supply portfolio in our core European markets, while also developing lower-carbon energy solutions. Our objective is clear: to provide our customers with the energy they need today, while supporting their transition towards a more sustainable energy future.

What can visitors expect at ADIPEC 2026?

We want visitors to see energy as a connected system. The future is not about choosing between today's needs and tomorrow's ambitions. It is about advancing both in parallel. We'll showcase how secure energy supply, technological innovation and scalable lower-carbon solutions work together. From projects such as Wittau and Neptun Deep to geothermal developments in Vienna and Graz, we demonstrate how OMV is delivering value today while building the "Energy of the Future".

What is your vision for energy's future?

I am optimistic because our industry has the expertise, technology and innovative capacity to meet growing demand responsibly. The challenge is not simply producing energy, but providing the right solutions for customers and society.

The future will require security, innovation and integration. That is exactly the path OMV is pursuing: delivering energy essentials the world depends on today while building the energy solutions of tomorrow. Powered by demand. Enabled by integration. Delivered at scale.

“Delivering energy essentials the world depends on today while building the energy solutions of tomorrow.”



Bringing manufacturing closer to energy frontier

Oilfields Supply Center Ltd. (OSC Group) highlights how regional manufacturing capabilities, integrated supply chains, and international partnerships can strengthen energy security and operational resilience

As the global energy landscape navigates shifting market dynamics, escalating power demands, and complex geopolitical and supply chain pressures, the definition of energy security is undergoing a fundamental evolution. Historically focused primarily on resource availability and production capacity, modern energy security is increasingly dependent on the resilience of the supporting industrial ecosystem.

To future-proof the global energy supply, the sector must look beyond the wellhead and prioritise localised infrastructure, agile supply chains, and robust manufacturing capabilities that can withstand external shocks. At Oilfields Supply Center Ltd. (OSC Group), operating from our strategic industrial hubs in the UAE, we see firsthand how localised readiness underpins long-term operational continuity. Driven by our four distinct business pillars — common user supply base and logistics operations, precision machining and manufacturing, industrial engineering and fabrication, and oilfield services — OSC has served for decades as a cornerstone for industrial energy services. We bridge international OEMs and regional operators through an integrated ecosystem designed to de-risk investments and eliminate critical supply chain vulnerabilities.

Energy resilience is just as much about maintaining and optimising existing infrastructure as it is about deploying new assets.

De-risking investments through localised manufacturing

Global supply chain disruptions over recent years exposed

the fragility of relying on distant manufacturing centres for mission-critical oilfield and energy infrastructure components. Lead times stretching across months can stall major capital projects, inflate operational expenditures, and threaten energy delivery timelines.

The most effective solution to these vulnerabilities is regional localisation. Through Smith International Manufacturing Limited (SIML), operating from Dubai Industrial City, and our broader OSC campus network, we provide advanced, on-demand precision manufacturing for critical oilfield and drilling equipment directly within the region. SIML specialises in producing high-integrity completion assemblies — including liner hangers and specialised downhole tools — built to rigorous international standards. By establishing comprehensive manufacturing and assembly infrastructure locally, we empower operators to dramatically compress procurement cycles, eliminate cross-border shipping bottlenecks, protect capital investments, and significantly reduce the carbon footprint associated with long-haul freight transport.

Extending asset lifecycles and fortifying reliability

Energy resilience is just as much about maintaining and optimising existing infrastructure as it is about deploying new assets. Across upstream and downstream operations, operators face the dual imperative of maximising production efficiency while ensuring absolute structural and mechanical integrity.

Through our specialised advanced machine shop facilities, such as Smith International Gulf Services (SIGS) - OSC Ltd. located in KEZAD (Abu Dhabi), we deliver comprehensive inspection, repair, and asset lifecycle extension services. By restoring heavy-duty drilling tools, valves, and wellhead equipment to rigorous original equipment manufacturer (OEM) standards locally, we ensure that critical assets remain in service longer and perform reliably under extreme operating conditions. This localised capability reinforces the backbone of regional energy operations, ensuring



High-performance computing and automated operational technologies rely on uninterrupted, mechanically sound industrial environments to thrive.

that the physical infrastructure underpinning oil, gas, and emerging energy supply lines remains fortified against premature failure.

Enabling cross-border collaboration and future-ready growth

True energy resilience cannot be achieved in isolation. It requires robust, collaborative partnerships that connect international technology providers with regional execution strength. OSC acts as a catalyst for collaboration, offering plug-and-play industrial infrastructure that allows international energy technology innovators to establish local presence swiftly. By fostering this collaborative industrial cluster, we help cultivate a secure, diversified ecosystem capable of adapting to rapid market shifts.

Furthermore, as the energy sector embraces digital transformation, advanced automation, and the integration

of artificial intelligence across industrial facilities, the underlying physical and mechanical infrastructure must be equally agile.

High-performance computing and automated operational technologies rely on uninterrupted, mechanically sound industrial environments to thrive. Our continuous investments in advanced shop-floor machinery, digital inventory tracking, and quality management systems across our facilities ensure we are fully prepared to support the sophisticated demands of modern, tech-enabled energy operations.

Showcasing resilience at ADIPEC 2026

As we participate in ADIPEC 2026 under this year's inspiring theme, "Where Energy Opportunity Takes Shape", Oilfields Supply Center Ltd., SIML, SIGS, and the rest of the OSC Group are proud to showcase how localised industrial infrastructure and integrated supply chain solutions are actively shaping a more secure energy future.

We invite industry peers, partners, and operators visiting our stand to explore how our comprehensive ecosystem can eliminate supply chain friction, protect your capital investments, and drive sustainable operational excellence.

By building resilience from the ground up, we ensure that the global energy ecosystem remains secure, agile, and prepared for the challenges of tomorrow.



Expertise that turns operational insight into long-lasting value

Pilko & Associates combines deep operational expertise, risk management and M&A advisory to help energy and chemical companies strengthen performance and unlock long-term value

At ADIPEC, where this year's theme, "Where Energy Opportunity Takes Shape", focuses attention on the future of energy, Pilko & Associates continues to demonstrate how operational excellence, risk management, and resilience create lasting value across the energy and chemicals industries.

For 47 years, the firm has helped organisations assess risk, improve performance, transform operations, and maximise value throughout the business lifecycle.

Founded on the principle of delivering honest, practical advice from experienced industry practitioners, Pilko has become one of the sector's most trusted advisors. Unlike traditional consulting firms, Pilko's experts are former operational leaders who bring an average of more than 38 years of real-world experience from leading petrochemical, chemical, refining, speciality chemical, and manufacturing organisations.

As energy markets evolve and operational challenges become increasingly complex, organisations are placing greater emphasis on reliability and resilience. Pilko combines operational excellence, risk management, and mergers and acquisitions expertise to help clients navigate uncertainty, strengthen performance, and identify opportunities for sustainable growth. Over the past four and a half decades, the firm has completed projects in more than 80 countries and advised on over 100 M&A transactions with a combined value exceeding US\$600 billion.

Experience rooted in operations

What differentiates Pilko is its deep operational understanding. Rather than focusing solely on financial metrics, the firm evaluates the operational realities that often determine whether an asset, transaction, or organisation succeeds. This approach helps clients uncover risks, improve reliability, and build operational

resilience before challenges impact performance.

A key focus across the energy industry today is resilience throughout the value chain. Pilko's proprietary methodologies, including its 8IGHT DRIVERS® organisational assessment framework and preacquisition Remote Sensing® process, help investors, owners, and operators gain a clearer understanding of asset performance, operational readiness, and risk exposure.

These assessments evaluate critical areas including leadership, safety culture, maintenance and reliability, process safety, workforce competency, management systems, and operational excellence. The objective is not simply to identify deficiencies, but to uncover opportunities that strengthen performance, improve reliability, and create long-term value.

What differentiates Pilko is its deep operational understanding. Rather than focusing solely on financial metrics, the firm evaluates the operational realities that often determine whether an asset, transaction, or organisation succeeds.

Managing risk across the ownership cycle

Pilko's M&A advisory capabilities span the entire ownership cycle. Before a transaction, the firm helps buyers identify material risks, environmental liabilities, capital requirements, operational weaknesses, and hidden value opportunities. During negotiations, advisors support deal teams with risk assessments, valuation insights, and transaction strategies. Following acquisition, Pilko helps organisations accelerate integration, strengthen



governance, improve operations, and realise value. The firm also provides sell-side diligence services that enhance transparency and increase buyer confidence. Beyond transactions, Pilko is recognised for its operational assessments and transformation programmes.

Its Cold Eyes Reviews, operational readiness evaluations, maintenance excellence studies, process safety reviews, and cultural assessments provide objective perspectives that help organisations identify operational, cultural, and systemic risks before they become costly incidents or performance constraints. These services play a critical role in helping energy and industrial companies build safer, more reliable, and more resilient operations.

Following acquisition, Pilko helps organisations accelerate integration, strengthen governance, improve operations, and realise value.

Technology meets operational expertise

As industry pressures continue to evolve, Pilko also embraces digital technologies that improve decision-making and performance. Its latest assessment methodologies incorporate artificial intelligence, predictive analytics, robotics, drones, digital workflows, and advanced operational dashboards to help clients improve safety, reliability, efficiency, and operational effectiveness.

Today, Pilko remains focused on the mission that has defined its success for 47 years – helping organisations become safer, more reliable, more resilient, and more profitable. Whether advising on acquisitions, evaluating operational readiness, or leading transformational improvement initiatives, the company continues to help clients shape opportunity through disciplined risk management and operational excellence.

For ADIPEC delegates exploring the future of energy, Pilko's story reinforces a simple truth that resilient organisations are best positioned to manage risk, capture opportunity, and create sustainable value. Through decades of industry experience and commitment to operational excellence, Pilko continues to help shape a stronger and more resilient energy future.



From reactive maintenance to predictive intelligence

Prometheus Group is helping operators move beyond reactive maintenance, using smarter systems and real-time data. **Jamal Alamer**, Vice President - MENAT at Prometheus Group, weighs in on how the technology is helping the industry strengthen operational resilience

Prometheus Group has evolved from enhancing maintenance execution within ERP systems to delivering an end-to-end asset management platform.

“Our focus has always been on helping organisations execute maintenance more efficiently,” says Jamal Alamer, Vice President - MENAT at Prometheus Group. “But today, efficiency alone isn’t enough. It’s about effectiveness too; making sure teams are doing the right work at the right time, and using smarter, data-driven decisions across the entire asset lifecycle to get there.”

Operators face ageing infrastructure, workforce constraints and pressure to cut costs while maintaining uptime. Many still rely on fragmented systems that limit visibility, while Gartner estimates poor data quality costs organisations an average of US\$12.9 million a year. Bringing data management, planning, scheduling, execution and analytics into one connected environment allows companies to move from reactive maintenance to proactive, optimised operations.

AI delivers practical impact

A key driver of this transformation is the growing role of artificial intelligence in maintenance and reliability, which Alamer says is now reducing reliance on manual processes and improving consistency across operations for asset-intensive industries. By leveraging advanced analytics and real-time data, organisations can predict equipment failures before they occur, optimise maintenance schedules, and automate routine planning decisions.

According to McKinsey, predictive maintenance can reduce downtime by 30-50% and extend equipment life by 20-40%. For frontline teams, this means less unplanned work and more time for high-value activities, translating into higher uptime, improved safety and better use of resources.

A region moving towards digital maturity

Digital transformation is gathering pace across MENAT oil and gas as national oil companies and operators invest in new technologies. The financial stakes are significant: offshore operators average around 27 days of unplanned downtime annually, costing roughly US\$38 million, while more than two-thirds of turnarounds exceed planned costs or schedules by at least 10%.

“The biggest opportunity today is turning years of maintenance data into a real decision-making advantage.”

The region’s energy infrastructure has repeatedly been tested, from sudden disruptions in recent years to market volatility earlier in 2026. “Operators who already had that visibility were able to adapt schedules and protect production with far less disruption than those still working from fragmented systems,” notes Alamer. “It has reinforced, for a lot of our customers, that resilience and digital maturity go hand in hand.”

A deeper regional commitment

To support this momentum, Prometheus Group has opened its first office in the region, in Dubai, strengthening its presence across a market that also spans Saudi Arabia, Qatar and Egypt. The move brings localised expertise and faster support closer to operators and partners. “It is about building long-term partnerships and delivering value on the ground,” says Alamer.



“It is about building long-term partnerships and delivering value on the ground.”

The future: predictive, prescriptive and autonomous

Alamer expects AI to move beyond recommendations to taking direct action and eliminating repetitive manual planning. Rather than relying on horizontal AI that only suggests actions, Prometheus Group is developing vertical AI trained on decades of real maintenance data

and embedded directly into workflows. This enables systems to interpret information, make decisions, execute actions, subject to human review and approval.

“The next stage is systems that don’t just surface a recommendation; they can act on it within the right guardrails,” he says. “That shifts the bottleneck from data to judgement, and it changes what a maintenance team’s day actually looks like.”

For this to work, IT and operational technology must draw on the same data. The organisations that get ahead, Alamer suggests, will be the ones that treat this as core infrastructure, not just another software rollout. “The biggest opportunity today is turning years of maintenance data into a real decision-making advantage,” he concludes. “Get the technology and the process right together, and the payoff shows up everywhere: in uptime, in safety, in profits, and in how confidently a team can plan its year.”



Giving wellhead platforms a second life in the Gulf of Thailand

PTTEP explains how its first total wellhead platform reuse project in the Gulf of Thailand cuts costs, steel consumption, and emissions while supporting domestic gas production and reducing reliance on new builds

The Gulf of Thailand's highly compartmentalised reservoir structure presents a unique field development challenge. Hydrocarbon resources are trapped in numerous small reservoir pockets, requiring extensive drilling activity and a dense network of wellhead platforms (WHPs) to sustain production. PTTEP currently operates nearly 300 WHPs in the Gulf of Thailand.

PTTEP's WHPs are central to maintaining domestic gas production and supporting Thailand's energy security. WHP capital expenditure is second only to drilling costs and, therefore, represents a substantial recurring investment. The company has also continuously improved its platform designs, making each generation leaner, lighter, and more fit-for-purpose.

Giving assets a second life

The effort has gone beyond fit-for-purpose design. PTTEP's reuse strategy started in 2020, focusing initially on reusing topsides on new jackets. In 2024, the strategy advanced to total WHP reuse, in which both the topside and jacket are relocated and installed at a new location. This culminated in the first successful execution of total WHP reuse in the gulf in 2026. The project transformed a decommissioning case into a productive redevelopment solution while reducing the demand for new builds.

Total WHP reuse offers an approximate 50% cost reduction and represents PTTEP's lowest-cost WHP model.

The donor and receiving locations were selected according to business needs, field development planning,

and decommissioning requirements endorsed by the Department of Mineral Fuels, Ministry of Energy of Thailand. Similar water depths and soil-bearing capacities were prioritised to limit modifications and improve constructability.

The execution scope covered detailed engineering, disconnection and isolation, topside and jacket removal, transportation, reinstallation, and final WHP installation. For jacket transportation, PTTEP used a wet-tow method with a heavy-lift vessel equipped with a DP-2 system. This method was selected through a risk-benefit assessment that balanced execution efficiency, marine-spread capability, and technology readiness. The jacket-relocation operation, from lift-off and wet tow to seabed placement, was completed in less 12 hours, demonstrating the method's execution efficiency. Close regulatory oversight maintained alignment with the approved final decommissioning plan and applicable rules and regulations.

The successful May-June 2026 offshore campaign confirmed the technical feasibility of total WHP reuse. Its principal resilience benefit is avoiding the fabrication of an entirely new topside and jacket. By redeploying an available platform, PTTEP reduced its dependence on a full new-build cycle and significantly shortened time to market. Total reuse also reduces future jacket-decommissioning requirements, enabling a single project decision to address both redevelopment and asset-retirement needs.

Taking reuse further

The economic case is equally important. Total WHP reuse offers an approximate 50% cost reduction and represents PTTEP's lowest-cost WHP model. WHP reuse changes the project's cost and execution profile. As the degree of reuse increases, expenditure shifts from engineering, procurement, and construction - particularly fabrication - towards transportation and installation. Greater reuse,



The project establishes total WHP reuse as a field-executed model that supports Thailand's energy security while advancing economically efficient and sustainable development.

therefore, increases offshore complexity and vessel time. The project demonstrates that these trade-offs can be managed while achieving a lower life-cycle cost.

Cutting time, costs and carbon

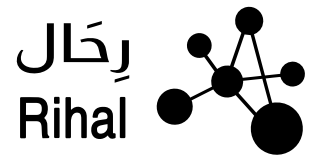
Total WHP reuse also creates direct sustainability value. Avoiding new construction conserved at least 1,500 metric tonnes of new steel and avoided approximately 3,270 tCO₂e of greenhouse gas emissions – an amount stated to be equivalent to the annual carbon absorption of more than 103,000 mature pine trees. Beyond this immediate reduction, the project applies circular-economy principles by retaining serviceable infrastructure in productive use rather than

treating it as waste at the end of its original field assignment. The first-of-its-kind project confirms that realising these benefits requires disciplined engineering, appropriate donor-receiver matching, capable marine operations, regulatory alignment, and careful management of increased offshore duration. Standardising the lessons learned from this campaign could support replication in subsequent phases and future annual campaigns.

The project establishes total WHP reuse as a field-executed model that supports Thailand's energy security while advancing economically efficient and sustainable development. PTTEP's stated direction is to progressively shift the annual platform mix from new builds towards topside reuse and total WHP reuse. The initiative could significantly reduce PTTEP's reliance on new WHP construction in the gulf by 2030.

Scaling the model

Lower capital investment and a reduced decommissioning burden can help prolong the domestic natural gas supply. Total WHP reuse, therefore, represents a resilient development strategy that integrates engineering innovation, project economics, greenhouse gas avoidance, and circular-economy principles.



Building energy resilience on data that you can trust

Rihai says Rihai Data eXtract and Rihai Data Refine are now listed in the CFIHOS Software Conformance Database, placing engineering data technology built in Oman on the standard the global energy industry uses to hand over information. The company explains why this is significant

A single pump arrives in a handover package. Two workbooks spell its tag differently. Its data sheet is a rotated scan from 1998. Its serial number reads “N/A”. Nobody made a mistake; this is what a real handover looks like.

Multiply that by 100,000 tags and the problem beneath most asset information programmes comes into view. The information was specified, paid for, delivered and stored. It cannot be read. Capacity is being added to existing facilities faster than the documentation describing them can be made usable, and an operator who cannot state what is installed, where, and to what specification cannot safely accelerate anything.

Conformance as an engineering control

CFIHOS, the Capital Facilities Information HandOver Specification governed by IOGP, standardises how engineering information is structured and exchanged between contractors, suppliers and operators. It governs the class libraries, property codes and picklists that allow data arriving from 20 suppliers across a dozen countries to resolve into one register rather than 20.

Rihai Data eXtract (RDX) and Rihai Data Refine (RDR) are now formally listed in the CFIHOS Software Conformance Database. Both operate at the point where capital risk concentrates.

Opportunity takes shape where information an organisation already owns becomes knowledge it can trust.

RDX reads datasheets, P&IDs, inspection certificates and legacy scans using vision models and multi-language OCR, mapping automatically to CFIHOS V2.0 taxonomy. RDR applies gap analysis, property and value mapping, deduplication and referential integrity checks, producing asset master data that SAP, Maximo or Oracle eAM will accept. Conformance at this stage converts handover acceptance from a judgement into a measurement.

Provenance and the two things a register describes

Every extracted value carries a confidence score and the position on the page it was read from, so any figure can be traced to the document that asserted it. Columns the system does not recognise are retained as written rather than discarded, and every transformation is held in an audit trail.

Reference data is placed under the same control: Rihai Data Library versions class libraries, property codes and picklists through approval workflows and quality health checks, so a multi-site operator's definitions stay consistent across every facility.

One distinction does much of the remaining work. A register describes two things at once: the position in the plant, and the item currently fitted into that position. Systems that conflate them lose an asset's maintenance history the moment a pump is swapped, and the loss is silent. Held apart and carried side by side, they allow Rihai Data Foundation to trace what feeds an asset, what it powers and which drawings show it, and to assess the impact of a modification to an offshore platform, pipeline or storage facility before it is made.

Compute follows structure

Energy organisations are deploying AI while being asked to account for the power it consumes. Both pressures point the same way: less inference, over better inputs. Extraction is performed once; thereafter an everyday



question resolves against structure rather than returning a large model to the same scanned drawing. Siraaaj, Rihaj's enterprise AI platform, runs on-premises, leaving the organisation in control of where that workload sits, and what it can reach.

Where energy opportunity takes shape

Opportunity takes shape where information an organisation already owns becomes knowledge it can trust.

An engineer resolving an equipment issue should spend the hour solving the problem, not locating the evidence. During ADIPEC 2026 we will show that journey end to end on real inputs: one pump, from a folder of raw handover

files to an answer that cannot be reached today. Meet Rihaj on stand P22 in the AI and Robotics Zone in Hall 13.

Energy organisations are deploying AI while being asked to account for the power it consumes. Both pressures point the same way: less inference, over better inputs.

Built to deliver: why speed is now LNG's resilience strategy

SAMSUNG E&A's FLUX LNG™ pairs Honeywell Technologies' proven AP-SMR™ LNG Process liquefaction technology with modular execution, delivering speed, flexibility, reliability and execution certainty, cutting project duration by around 20% so new LNG supply reaches markets sooner

Securing the energy the world needs is more important than ever. For the energy sector, resilience begins with execution.

Energy demand and energy security are often framed as competing priorities, but they meet at a single point: delivering new capacity reliably and on time. A project that slips by a year is not just a commercial setback; it creates a supply gap someone must fill.

LNG sits at the centre of this challenge. We are candid that LNG is a bridge, not a destination. But a bridge still has to be engineered properly and built fast, and the way LNG plants are built is changing.

Taking risk off the site

Many new gas fields are being developed in remote locations or in regions where security and political conditions are uncertain. There, every week of work at site carries risk: labour availability, weather, logistics, and local conditions can all disrupt the schedule. The answer is to move as much work as possible offsite.

That is the logic behind FLUX LNG™, the LNG Module Package SAMSUNG E&A launched at Gastech 2026 in Bangkok, marking our full-scale entry into the LNG plant market. It combines Honeywell Technologies' AP-SMR™ (Single Mixed Refrigerant) LNG Process, whose liquefaction technology is behind more than 140 LNG plants designed worldwide and around two-thirds of the world's LNG, with our modular execution capability, backed by more than 28 global modular execution references.

The package is designed for plants of 1.0 to 1.2 MTPA and its modules can be split into several smaller modules or combined into one or two larger modules, depending on client requirements, transportation constraints, and site conditions. Maximum modularisation breaks through site constraints, but the larger benefit is schedule. For

mid-sized plants, the package cuts project duration by roughly 20%, bringing forward the Commercial Operation Date (COD) so clients generate revenue, and markets receive supply, sooner.

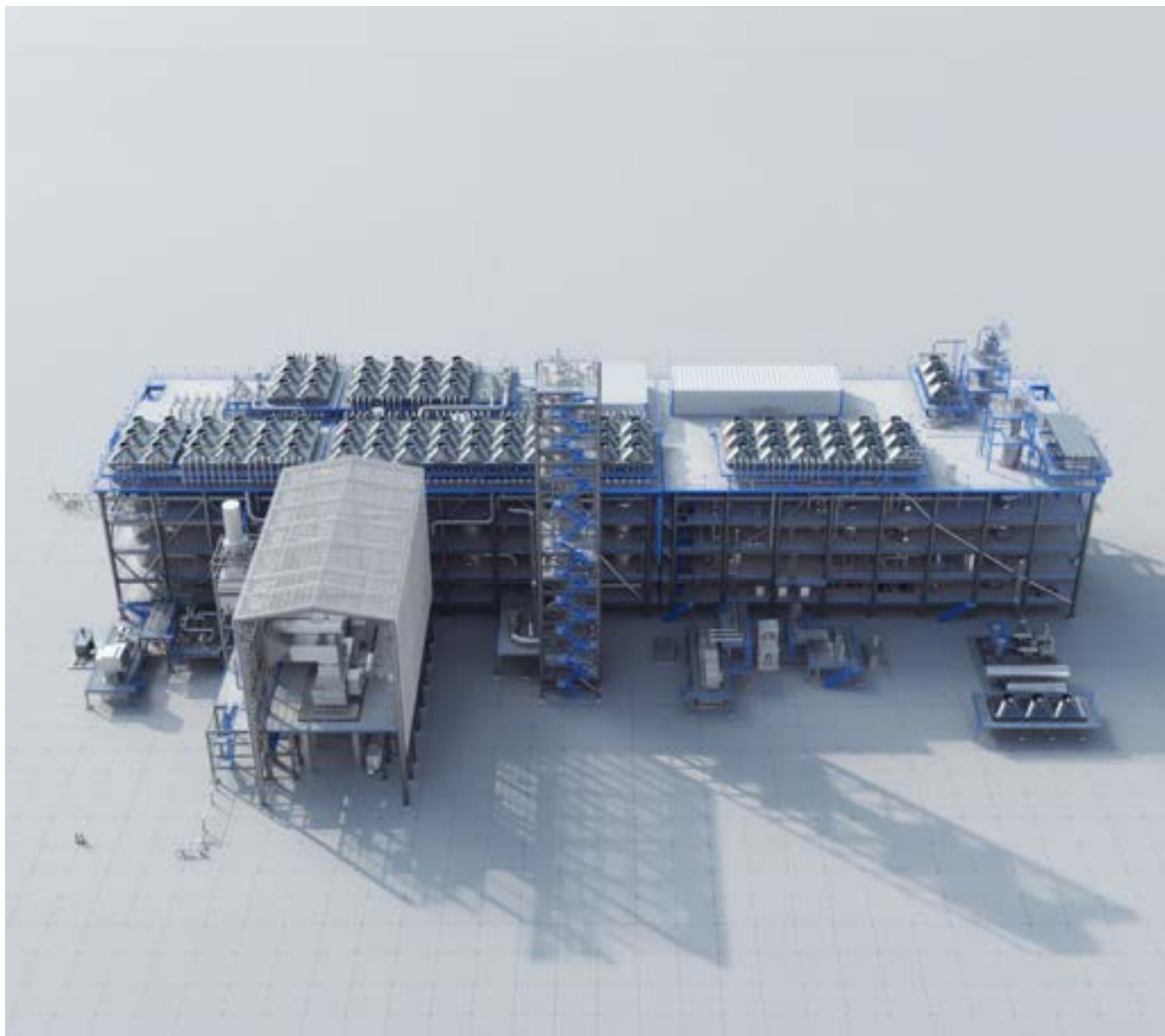
Maximum modularisation breaks through site constraints, but the larger benefit is schedule.

Certainty from day one

Investment risk peaks early, when decisions rest on limited information. The package already has more than 30% of its modeling completed and 68 pre-engineered deliverables ready to adapt. Key design parameters, cost, and schedule become visible much earlier: Pre-FEED and FEED (Front-End Engineering Design) can move up to eight months faster, and technical proposals can be returned two to three months sooner. Strategic partnerships with key LNG vendors are already reflected in the design, securing price competitiveness from the outset. Credible numbers at the earliest stage of development give investors and partners the confidence to move forward.

AI across the project lifecycle

AI is reshaping both sides of the energy equation. Data centers are adding substantial power demand, and LNG-supplied gas-fired generation is among the most practical ways to meet it at scale. AI is also transforming how infrastructure is delivered. At SAMSUNG E&A, AI now runs through the full project lifecycle, not just one stage of it. It reads tender documents, proposes design alternatives, and predicts cost and schedule before a line is drawn. Our engineering data platform lets every



Most of today's LNG opportunity lies in small and mid-sized plants, which reward speed and repeatability over one-off designs.

discipline work in parallel rather than in sequence, and in our Smart Piping Shop, AI hands design data straight to robots that fabricate. We develop much of this ourselves, training our engineers as AI developers rather than just AI users. The LNG Module Package is that capability turned into a specific product.

Expanding critical infrastructure comes down to how many reliable assets can be brought online, how quickly,

and where. Most of today's LNG opportunity lies in small and mid-sized plants, which reward speed and repeatability over one-off designs. A pre-engineered, modular solution strengthens supply by making each new plant more predictable: higher fabrication quality and productivity in the yard, less dependency on local labor, weather and site conditions, and integrated EPC know-how embedded in the design from the start. The approach builds on our basic design for an eco-friendly LNG plant in Indonesia and conceptual design in North America.

Ready for execution

At ADIPEC 2026, we will showcase FLUX LNG™ and explore with partners how modular, pre-engineered solutions can shorten the path from project opportunity to LNG production. As the industry works to meet growing demand without compromising security, a smarter way to deliver LNG will be part of the answer.

Engineering resilience into the Middle East's power systems

As geopolitical pressures expose vulnerabilities in critical infrastructure, **Hussein Shoukry**, President, Middle East and Africa, **Siemens Energy**, makes the case for stronger protection of energy sites, local supply chains and interconnected grids to safeguard the region's energy future

A country's energy system takes a decade to build or transform, yet a single season of volatility can leave it exposed. This year, the Middle East's power infrastructure has been tested in real time, changing how governments and utilities calculate the cost of getting it wrong.

For years, the regional energy agenda was driven by a straightforward mandate: deliver power at the lowest possible cost to fuel rapid economic expansion. Protecting critical infrastructure was always a priority, but recent events have elevated it from a theoretical risk exercise to a daily operational priority. The question is no longer just how cheaply we can generate a megawatt-hour, but how reliably our systems can withstand pressure.

The conversations we are having with governments, power providers and grid operators today are increasingly urgent. How do we protect field engineers and secure power plants against physical or cyber threats? If a major generation node goes offline, where does the backup capacity come from? And how do we isolate faults before they cascade across the transmission network, disrupting industries, water desalination, and public services?

"The conversations we are having with governments, power providers and grid operators today are increasingly urgent."

With a 170-year engineering footprint and operations in over 90 countries, Siemens Energy has seen first-hand how energy systems behave under extreme stress, including

in Ukraine. The lesson is clear: resilience cannot be improvised during a crisis. It has to be engineered into the physical assets, grid architecture, and the local supply chain years in advance.

Protecting people and critical assets

The first line of defense is physical security and operational continuity. Working closely with utilities, we have strengthened emergency evacuation procedures and ensured hardened shelters are available for crews who must remain onsite to maintain operations.

Infrastructure design is also changing. Discussions now cover resilience by design, reinforced underground asset management and control rooms, backup communication links, and enhanced protection around critical grid nodes. In several conflict-exposed markets, these measures are moving from blueprints to deployment. Scaling them requires clear regulations and close coordination between utilities, technology partners, and national security authorities.

Localisation as a resilience enabler

Physical protection means little if a damaged turbine or high-voltage transformer takes three to four years to replace. Global manufacturing queues for grid and generation equipment are stretched to historic lengths. When shipping routes or cross-border logistics are disrupted, dependence on distant factories becomes a national vulnerability.

Localisation therefore has become essential to crisis preparedness. Governments must place energy supply chains at the centre of industrial policy, while technology providers must commit long-term capital.

True localisation extends beyond assembly. It requires regional capacity to manufacture critical components, undertake repairs and deploy specialised engineers within hours rather than weeks. Our Dammam Hub in Saudi



Arabia and our Musaffah Service Centre in Abu Dhabi show this approach.

Crucially, localisation does not mean duplicating factories in every country. A more effective regional model involves complementary manufacturing and repair hubs across neighbouring markets, allowing spare parts, heavy tooling, and engineering talent to be mobilised across borders.

Scaling for 2035 without compromising the transition

This security challenge coincides with surging electricity demand. Driven by rapid urbanisation, industrial expansion, desalination, and AI data centres, Middle Eastern electricity consumption is growing at 6% to 7% annually and is projected to increase by roughly 50% by 2035. Meeting this demand requires investment in flexible gas generation, utility-scale renewables, and high-voltage transmission infrastructure.

Notably, energy security has not sidelined decarbonisation. Regional energy strategies remain committed to existing renewable targets. Decentralised solar arrays, battery storage, and cross-border HVDC interconnections can strengthen resilience by reducing dependence on single points of failure.

Combined with AI-enabled grid management that can reroute power flows and stabilise frequency during disruptions, clean technologies and system security reinforce one another.

“True localisation extends beyond assembly. It requires regional capacity to manufacture critical components, undertake repairs and deploy specialised engineers within hours rather than weeks.”

Resilience as a standing responsibility

The geopolitical pressures testing our region will permanently influence how energy infrastructure is planned. Resilience cannot remain a temporary wartime strategy. Reliable power underpins water security, economic continuity, and national sovereignty. The ability to absorb shocks must therefore be embedded in every grid and power plant we commission.

Our responsibility is to invest before the next crisis by building localised supply chains, interconnected grids, and hardened assets capable of withstanding disruption and recovering fast. This will not only secure the Middle East’s domestic power needs but also position the region as an industrial localisation powerhouse, exporting low-carbon electricity, critical equipment, and engineering expertise.



Bolstering security via intelligent safety and operational resilience

Seth Long, CEO of **Shepherd Safety Systems LLC**, explores why consistent safety standards and reliable operational data have become increasingly important as companies expand across borders

The global energy industry is entering a period of significant transformation. Rising energy demand, the rapid expansion of AI, geopolitical uncertainty, and continued investment in critical infrastructure are creating both opportunities and challenges for energy producers worldwide.

Meeting this demand requires more than increasing production capacity. It requires an industry capable of operating safely, efficiently, and consistently while protecting the infrastructure and workforce responsible for delivering the world's energy.

Power of experience

At Shepherd Safety Systems, we believe operational safety and reliability are fundamental to long-term energy security. With 15 years of experience supporting North America's energy industry, we have seen firsthand how quickly operational risks can affect production, personnel, and financial performance.

“Our objective is to connect frontline safety information with enterprise-level operational awareness, ensuring potential hazards can be identified and addressed before they develop into larger disruptions.”

A hazardous gas release, equipment failure, or delayed response can result in significant disruptions, often extending beyond the immediate incident.

Our focus has always been on providing operators with the technology and information necessary to identify these risks early and respond effectively.

Through integrated fixed and portable gas detection systems, real-time monitoring, and connected safety technologies, Shepherd provides greater visibility into operating conditions across energy facilities. This allows companies to make informed decisions, strengthen workforce protection, and reduce the potential for costly operational interruptions.

These capabilities also play an important role in protecting energy investments and supporting international operations. As companies expand across borders, maintaining consistent safety standards and reliable operational data becomes increasingly important.

Regional focus

Our expansion into Abu Dhabi reflects this commitment. By combining our North American experience with a growing presence in the Middle East, we support regional and international energy operators with dependable technology, local expertise, and solutions that can be deployed consistently across multiple markets.

Artificial intelligence is also reshaping the energy landscape. While the expansion of AI infrastructure is creating substantial new electricity demand, AI itself offers significant opportunities to improve how energy assets are managed and maintained. The challenge is ensuring these technologies deliver measurable operational value. At Shepherd, we see particular potential in the information generated by connected safety equipment.

Our systems continuously collect data related to gas concentrations, hazardous conditions, and personnel exposure. Integrating this information into broader analytical platforms creates opportunities to identify



developing risks, improve response times, and support more proactive operational decisions. Importantly, we view AI as a tool that strengthens the capabilities of experienced personnel rather than replacing their judgement. Providing accurate, timely information to those responsible for managing operations remains essential.

“A hazardous gas release, equipment failure, or delayed response can result in significant disruptions, often extending beyond the immediate incident.”

This approach is particularly relevant as the industry continues expanding and modernising critical energy infrastructure. Offshore platforms, pipelines, LNG facilities, and production installations depend on reliable safety systems to maintain operational continuity. Connected gas detection, personal monitoring, and remote visibility provide an important layer of protection, allowing operators to better understand conditions across individual facilities and geographically distributed assets. Our objective is to connect frontline safety information with enterprise-level operational awareness, ensuring potential hazards can be identified and addressed before they develop into larger disruptions.

Dialogue for progress

ADIPEC 2026 provides an important opportunity to advance these discussions and strengthen collaboration across the global energy industry.

We are focused on the continued development of connected detection technologies, expanded remote monitoring capabilities, and the practical integration of safety data into AI-enabled operational systems. These advancements can help energy companies move toward more predictive approaches to risk management while improving the consistency and reliability of international operations.

Equally important are the partnerships required to bring these solutions into the field. Our presence in Abu Dhabi represents a long-term commitment to supporting the Middle East's energy sector and its continued development as a global energy leader.

ADIPEC's theme, “Where Energy Opportunity Takes Shape”, reflects the importance of turning technological advancement and international collaboration into lasting operational value.

Ultimately, the future of energy security will be determined not only by how much energy the industry can produce, but by how safely and reliably it can deliver that energy.

We intend to contribute to that future by helping operators protect their people, strengthen critical infrastructure, and build greater resilience into the operations that power the world.

Building energy resilience for a secure and sustainable future

Sharjah National Oil Corporation is strengthening energy security through reliable infrastructure, strategic gas storage, technology and deeper integration across the Northern Emirates

Energy security has always depended on reliability. What has changed is what reliability now demands.

Recent supply chain shocks and market volatility have shown how quickly established assumptions can be tested. Resilience today means ensuring energy can still be produced, stored and delivered when supply chains, infrastructure or operating conditions come under pressure. For Sharjah National Oil Corporation (SNOC), resilience begins with the fundamentals: safe operations, dependable infrastructure, sound planning and strong partnerships.

Resilience starts with reliable infrastructure

Sharjah's production, pipelines and storage operate as one connected system, where each part affects the reliability of the whole. Keeping it reliable requires constant attention to asset integrity and the ability to respond quickly when conditions change.

Underground gas storage at the Moveyeid field illustrates this approach. Identified as a concept as early as 2003, and the UAE's second gas storage project, the reservoir allows surplus gas to be injected in cooler months and withdrawn to meet summer peak demand. It also holds a strategic reserve against unplanned disruption.

The asset was developed in stages, beginning nearly a decade ago. New surface facilities, including high-pressure compression and pipelines, were integrated with a repurposed mature gas field and tested thoroughly, giving stakeholders assurance before full commitment. Specialised multilateral drilling from existing wells, guided by AI-augmented design and planning, then improved productivity. The result is an integrated system capable of responding flexibly to seasonal demand peaks and unplanned supply disruptions, at lower injection pressures and reduced operating cost.

For years, efficiency meant minimising spare capacity. Recent disruptions have challenged that view. Storage, redundancy and alternative supply routes can look underused on an ordinary day; their value shows when normal conditions no longer apply. The test of an asset is therefore whether it keeps performing under stress, as well as how efficiently it runs. Infrastructure strategy is moving from "just-in-time" efficiency towards "just-in-case" resilience.

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From asset resilience to system resilience

The next stage looks beyond individual assets to the wider energy and industrial system. SNOC has indicated that a future phase at Moveyeid could raise storage capacity up to four times current levels, with the potential to serve the wider UAE. Together with complementary infrastructure across the Northern Emirates, this creates scope for closer integration of storage, pipelines, ports, utilities and industrial development. A more distributed and interconnected system provides alternative supply options and logistics routes when an individual facility or supply chain is under pressure. It can also spread energy-intensive industry, and the investment it brings, across more of the country.



Technology and partnerships must strengthen resilience

Automated operation, real-time monitoring, predictive maintenance and AI-based analytics help operators identify risks earlier, incorporated all throughout SNOC's gas storage value chain.

In a disruption, the value of information is measured in decision time: how quickly a problem is identified, its consequences understood and a response under way before an operational issue becomes a supply problem.

No operator can build resilience alone. Energy security depends on cooperation among operators, governments, utilities, ports, suppliers and financiers. In the Northern Emirates, deeper partnerships would allow complementary assets to work together while preserving the commercial and strategic strengths of each organisation and emirate.

Putting a value on resilience

Resilience carries a cost. Storage, spare capacity, stronger infrastructure and contingency planning all require investment.

The World Energy Council's energy trilemma offers a useful way to judge that cost, weighing energy security, equity and environmental sustainability together. Storage serves all three. It secures supply when the system is under stress. It protects affordability by avoiding the costs of interruption to power, water and industry, and phased development at

Moveyeid kept the investment itself disciplined. It supports sustainability by providing the flexible backup that allows more solar power onto the grid. Seen through this lens, resilience is an investment in continuity.

ADIPEC 2026, under the theme "Where Energy Opportunity Takes Shape", offers a timely platform for this discussion, as the industry considers what secure future supply will require.

For SNOC, the priority is to strengthen its own operational resilience while contributing to a more connected energy and industrial ecosystem across the Northern Emirates. Efficient systems perform well in normal times. Resilient systems keep performing when conditions change. The energy systems best placed for the future will be built for both.

In a disruption, the value of information is measured in decision time: how quickly a problem is identified, its consequences understood and a response under way before an operational issue becomes a supply problem.



Building energy resilience from local capability to global reach

Tenaris combines local industrial investment, integrated services, technical innovation and global expertise to strengthen energy infrastructure in the UAE and beyond

As the energy industry responds to rising demand, evolving technologies and increasingly complex operating environments, resilience is becoming as important as capacity. For Tenaris, resilience starts with a simple principle that reliability is built into the way we work.

It means having the industrial capabilities, supply chains, technologies and people to deliver consistently, while remaining close enough to our customers to understand their challenges, solve problems, and adapt as their needs evolve.

Strengthening supply reliability

In the UAE, this approach has been shaped by more than 35 years of working alongside the country's energy industry. Today, our local footprint combines industrial capacity, services, technical expertise and talent development, creating capabilities close to where they are needed while connecting them to Tenaris' global network. At the centre of this ecosystem is Tenaris' industrial complex in Abu Dhabi, Etihad Tubulars, which brings together premium OCTG threading, a service yard and an industrial training centre, supported by advanced manufacturing, automation, real-time data and smart logistics.

This proximity strengthens supply reliability and responsiveness while contributing to the UAE's ambition to develop a competitive industrial ecosystem.

Tenaris's UAE footprint extends beyond Abu Dhabi. In Ras Al Khaimah, the company's pipe coating capabilities support critical pipeline infrastructure in the UAE and across the region, including anti-corrosion and concrete weight coating. Together, these capabilities bring more stages of the value chain closer to the market, while our global industrial network provides additional flexibility when customers require

Tenaris's UAE footprint extends beyond Abu Dhabi. In Ras Al Khaimah, the company's pipe coating capabilities support critical pipeline infrastructure in the UAE and across the region, including anti-corrosion and concrete weight coating.

products, technologies or expertise from elsewhere in the world.

From products to integrated solutions

That combination of local presence and global reach is particularly important when projects face supply chain constraints, changing requirements or operational complexity. Through Rig Direct®, Tenaris integrates products, supply chain management, digital tools and technical services from the mill to the wellsite. DemandSync™, RunReady™, pipe-by-pipe traceability and field technical support help customers plan, prepare and execute operations with greater visibility and control. The objective is not simply to deliver a product, but to work alongside customers to anticipate requirements, address challenges, and find practical solutions when conditions change.

The company's long-term relationship with its local customers has evolved from supplying tubular products into an integrated model combining local investment, supply chain management and technical services. The ability to bring together manufacturing, service and field expertise is particularly valuable in complex operating environments, where reliability depends on



The combination of local presence and global reach is particularly important when projects face supply chain constraints, changing requirements or operational complexity.

many interconnected decisions rather than a single product.

A key component of this expertise is Tenaris's leadership in OCTG solutions and premium connections. Designed for increasingly demanding and complex drilling and production environments, a comprehensive portfolio of casing, tubing and proprietary premium connections help operators maintain well integrity, improve operational efficiency and support long-term asset reliability. This combination of product expertise and field experience enables customers to address increasingly challenging applications where performance is critical.

Innovation and talent for the future

Innovation is another essential element of resilience.

As energy evolves to meet changing technical and operational requirements, the technologies supporting it must evolve as well. Tenaris's global R&D network brings together expertise across four centres, working on advanced metallurgy, structural integrity, full-scale testing, corrosion, coatings, and data science. In 2025, the company invested US\$64 million in R&D, reflecting its long-term commitment to innovation.

This global knowledge is connected to local expertise. Our industrial training centre in Abu Dhabi supports the development of technical capabilities among local talent, ADNOC engineers and partners, with more than 2,000 hours of training delivered in the UAE.

This commitment extends beyond training to initiatives that support in-country value and local talent development, as well as engagement with the next generation through platforms such as the Abu Dhabi Youth Council. Together, these efforts help connect advanced manufacturing and technology with the people and capabilities needed to sustain a resilient energy industry.

At ADIPEC 2026, we will continue the conversation on how industrial capability, innovation and integrated services can strengthen energy infrastructure and support the industry's long-term growth.



Connecting markets globally to strengthen energy security

TotalEnergies combines a diversified energy portfolio, cross-border partnerships and advanced digital technologies to strengthen energy security, optimise operations, and support reliable supply

Resilience and energy security require a diversified and balanced energy mix. By combining reliable and affordable oil and gas, particularly LNG, with growing investments in renewables, electricity and storage, the energy sector can strengthen supply resilience, reduce vulnerabilities, and meet rising global energy demand.

TotalEnergies helps de-risk investments and strengthen energy security through its balanced multi-energy model, combining low-cost, low-emission oil and gas projects with growing investments in electricity and renewables.

By diversifying energy sources, building integrated value chains, expanding LNG infrastructure, and partnering with governments, national companies and local stakeholders across more than 120 countries, the company strengthens supply chain resilience. It also supports cross-border energy partnerships that deliver reliable, affordable and more sustainable energy.

The company develops integrated electricity platforms combining renewables, batteries and flexible generation to facilitate grid stability and the integration of intermittent renewable power.

Strengthening regional energy security

The Dolphin Gas Project is a flagship example of TotalEnergies' contribution to de-risking energy supply and strengthening regional resilience. By enabling the

cross-border transportation of natural gas from Qatar's North Field to the UAE and Oman through a dedicated pipeline network, the project creates an integrated regional energy system that diversifies supply sources, reduces vulnerability to disruptions, and reinforces long-term energy security.

During the 2026 regional crisis, the Dolphin pipeline remained a critical pillar of energy security for the UAE and Oman. While LNG markets faced significant disruption, the pipeline continued to provide a stable source of Qatari gas, highlighting the strategic value of long-term regional energy interconnections.

Harnessing AI for operational efficiency

AI is transforming the energy sector in two ways: as an enabler of efficiency and as a major new source of electricity demand. TotalEnergies is addressing this dual challenge by leveraging AI to optimise operations while expanding reliable and low-carbon power generation through its integrated multi-energy strategy. This approach helps meet the growing energy needs of the digital economy.

For TotalEnergies, AI is a strategic enabler of performance, safety, innovation and the energy transition. The company is scaling AI across its operations through its Digital Factory (TotalEnergies' AI and data accelerator) and OneTech (the technology, engineering and R&D arm of the company). These efforts are supported by advanced data platforms and strategic partnerships, notably with Mistral AI, Cognite and AspenTech.

Partnership with Mistral AI: In September 2026, TotalEnergies launched a three-year joint programme with Mistral AI, representing an investment of more than €100 million. The initiative aims to develop a new generation of frontier AI models to support the company's geosciences experts in the exploration, characterisation and development of oil and gas reservoirs.



These models will be designed to integrate, process and interpret large volumes of data, generating multiple scenarios for developing exploration opportunities while optimising and extending the life of existing projects.

Tie-up with Cognite: In 2025, TotalEnergies signed a three-year agreement with Cognite to scale the deployment of its industrial data and AI platform across all the company's operated upstream assets worldwide, covering the entire value chain from drilling to production. The objective is to harness the potential of TotalEnergies' data to enhance the industrial performance of its sites.

Collaboration with Emerson: Last year, TotalEnergies also announced a strategic collaboration with Emerson's Aspen Technology business to deploy advanced digital technologies for the continuous, real-time collection of data from its industrial sites. The collaboration aims to unlock greater value from this data and enhance decision-making, particularly through AI.

Building more resilient infrastructure

TotalEnergies contributes to the resilience of energy systems by combining advanced engineering, digital technologies and AI to optimise three critical infrastructures, namely grids, storage and energy transportation.

In power systems, the company develops integrated electricity platforms combining renewables, batteries and flexible generation to facilitate grid stability and the integration of intermittent renewable power.

In storage, it invests in battery systems and digital optimisation tools that improve flexibility, reliability and balancing capabilities.

The Dolphin Gas Project enables cross-border transportation of natural gas from Qatar's North Field to the UAE and Oman through a dedicated pipeline network.

Across transportation infrastructure, from LNG value chains to major gas pipelines such as Dolphin, TotalEnergies leverages digital twins, predictive analytics and real-time monitoring to enhance asset integrity, operational efficiency and security of supply. Together, these technologies help make energy networks more resilient, interconnected and adaptable to future demand.



The route to powering growth and true resilience at scale

UCC Holding combines international experience with an integrated engineering, procurement and construction (EPC) model and operational capabilities, aligning investment with delivery and long-term performance

Rising energy demand is reshaping how the world plans for growth. As industries expand and artificial intelligence accelerates electricity consumption, energy security increasingly depends on diversified supply, reliable infrastructure and the ability to adapt to disruption. Meeting these needs requires coordinated investment, technology and international collaboration across the energy value chain.

For UCC Holding, this connected approach underpins its energy activities, from exploration and production to transportation, processing, power generation and energy trading. With operations across 26 countries, the company combines international experience with an integrated engineering, procurement and construction (EPC) model and operational capabilities, aligning investment with delivery and long-term performance.

Balancing demand with long-term security requires both dependable generation and diversification. UCC's energy portfolio includes conventional power projects with a combined generating capacity of 8,300 MW, alongside 3,000 MW of renewable energy developments. Its wider capabilities encompass gas processing facilities, pipeline infrastructure, power barges and solar energy projects, with major developments spanning Kazakhstan, Syria, Iraq, and Libya.

In Syria, UCC is leading an international consortium involved in a programme to redevelop the electricity sector through four combined-cycle gas-fired power plants with a total capacity of 4,000 MW and a 1,000 MW solar power plant. The programme shows how conventional and renewable generation can contribute together to restoring an energy system. Reliable power also supports essential services, industrial activity and wider economic recovery.

Resilience also depends on how projects are structured and delivered. UCC's integrated EPC approach connects design, procurement and construction planning, helping teams identify delivery constraints earlier and coordinate requirements across project stages. Its international experience has also required the company to manage cross-border procurement, coordinate multinational teams and work in complex operating environments. Supply chain coordination, rapid decision-making and operational flexibility help manage execution risk and reduce disruption to schedules and investment outcomes.

UCC's capabilities across conventional generation, renewables, gas processing and energy transportation support diversified supply, while its integrated delivery model helps bring complex infrastructure into service efficiently as demand evolves.

Cross-border collaboration further strengthens this model. UCC's involvement with Chevron in Syria's first deepwater offshore exploration project illustrates how international energy expertise, regional capabilities and long-term investment can come together to support resource development. It also reflects UCC's expansion from infrastructure delivery into exploration, development and operations.

Artificial intelligence presents the sector with the dual challenge of using digital capabilities to improve



performance while supplying the electricity required for their expansion. Across the industry, AI can support demand forecasting, predictive maintenance and earlier identification of operational issues, helping operators use assets more efficiently. At the same time, AI and digital infrastructure create intensive and increasingly concentrated electricity demand.

UCC's contribution centres on the physical infrastructure that enables this growth. Its capabilities across conventional generation, renewables, gas processing and energy transportation support diversified supply, while its integrated delivery model helps bring complex infrastructure into service efficiently as demand evolves. The challenge is to develop digital and energy infrastructure in step, ensuring new demand is matched by dependable capacity and the networks required to deliver it.

For UCC, technology is applied through engineering integration and project execution, bringing together technical solutions across power generation, gas processing, pipelines, offshore energy and renewables. Across the wider sector, grid reinforcement, storage and digital controls are important complements to new generation, helping address bottlenecks and strengthen reliability. ADIPEC 2026 provides UCC with an opportunity to bring this integrated perspective to the discussion. Combined-cycle generation, utility-scale solar, pipelines, gas processing, offshore exploration and flexible power infrastructure each address a different part of the resilience challenge. Of particular importance is how these solutions work together: diversified generation supporting supply security, pipelines and

UCC's involvement with Chevron in Syria's first deepwater offshore exploration project illustrates how international energy expertise, regional capabilities and long-term investment can come together to support resource development.

processing strengthening energy connections, and flexible infrastructure responding to urgent or changing requirements.

ADIPEC also provides an opportunity to explore how advances in AI, grid integration and storage can complement these capabilities, alongside delivery models that improve coordination between investors, technology providers and infrastructure developers. Better integration can help shorten delivery timelines, improve asset utilisation and strengthen the industry's ability to respond to disruption.

For UCC Holding, "Where Energy Opportunity Takes Shape" captures that commitment: connecting investment, engineering and international expertise to deliver infrastructure that strengthens security, supports growth and creates lasting economic value.

Why delivery will define energy resilience

Gerry Traynor, Regional President - Middle East, Africa and Caspian, **Wood**, explains that resilience will be defined by the energy sector consistently delivering outcomes at scale beyond ambition

Energy resilience has become one of the industry's defining priorities. Across the world, governments, operators and investors are focused on strengthening energy security, meeting growing demand and advancing lower-carbon solutions. At a time of geopolitical uncertainty, rising energy demand and ageing infrastructure, energy systems are being asked to do more than ever before.

As the sector navigates unprecedented levels of change, resilience has become fundamental to ensuring reliable, affordable and sustainable energy for the future. In an industry full of competing narratives, it's important to tune out the noise and track the signal. The energy sector has spent years mapping out the future energy landscape. We know the world will need more energy, not less.

The challenge is executing at scale and turning ambition into outcomes while managing increasing complexity. This is where resilience moves beyond strategy. Ultimately, resilience is demonstrated through the successful delivery of projects, the enhanced performance of existing assets and the ability of infrastructure to operate safely and reliably under increasing pressure.

The delivery challenge

Achieving this is becoming increasingly challenging. Organisations face growing complexity, workforce pressures, fragmented data, constrained supply chains and rising expectations. These pressures are not confined to any one region or market; they are shaping energy projects globally.

In parallel, demand for energy continues to grow and meeting this requires more than investment capital or long-term plans. It requires organisations that can consistently deliver projects, optimise operations

“Ultimately, resilience is demonstrated through the successful delivery of projects, the enhanced performance of existing assets and the ability of infrastructure to operate safely and reliably under increasing pressure.”

and adapt to changing conditions in an increasingly complex environment. This is why resilience and delivery are interdependent.

Resilience is not created at a single point in an asset's life. It is built through better decisions from concept and design through delivery, operations, maintenance and life extension. Organisations that can connect information and expertise across that lifecycle are better positioned to improve performance, reduce risk and respond to changing demands. The ability to connect engineering, operational and commercial insights across the asset lifecycle is increasingly becoming a source of competitive advantage.

Turning technology into outcomes

This is where technology and artificial intelligence can play an important role, particularly when applied to real-world challenges that affect project delivery, operational performance and decision-making. AI enables organisations to derive greater value from engineering and operational data.

Used effectively, that insight can support faster decisions, improved productivity and more consistent project deliverables across the asset lifecycle. AI is only as effective as the information that underpins it.



“When combined with robust data and deep engineering expertise, AI can help organisations deliver projects more efficiently, optimise asset performance and accelerate progress towards their objectives.”

Trusted, connected engineering and operational information provides the foundation for better decisions, enabling organisations to move from reactive responses to predictive and proactive performance management.

AI's value will depend on how effectively it translates into real-world outcomes. In a sector where margins for error are small and the scale of investment is significant, incremental improvements in efficiency,

productivity and decision quality can have a substantial impact on results. When combined with robust data and deep engineering expertise, AI can help organisations deliver projects more efficiently, optimise asset performance and accelerate progress towards their objectives. The foundations of resilience remain constant: strong project execution, operational excellence, trusted data, workforce capability and effective decision-making.

The real measure of resilience

Ultimately, resilience will not be measured by the number of strategies announced or technologies adopted. It will be measured by outcomes: infrastructure delivered, asset performance, energy security and the industry's ability to meet growing demand with a diminishing carbon impact. Achieving this requires consistent execution, practical innovation and a relentless focus on outcomes. Because the future of energy resilience will not be defined by ambition alone. It will be defined by the industry's ability to consistently deliver outcomes at scale.

EXHIBITOR | 2ROADS GROUP HALL: 16 | STAND: 16316

Turning energy ambition to industrial capability

2Roads Group combines manufacturing, engineering, inspection, and asset-integrity expertise to strengthen infrastructure across the energy asset lifecycle

The future of energy will not be secured by generation capacity alone. It will be determined by the resilience of the infrastructure that produces, moves, processes, and protects it. At 2Roads, we believe the next energy opportunity lies in closing the gap between ambition and execution. As global energy demand rises, accelerated by industrialisation, electrification and the rapid growth of AI and data infrastructure, energy systems must simultaneously expand, become more efficient and remain dependable. That places renewed importance on the physical assets behind the energy system, including pipelines, valves, pumps, pressure equipment, processing facilities, and supporting infrastructure.

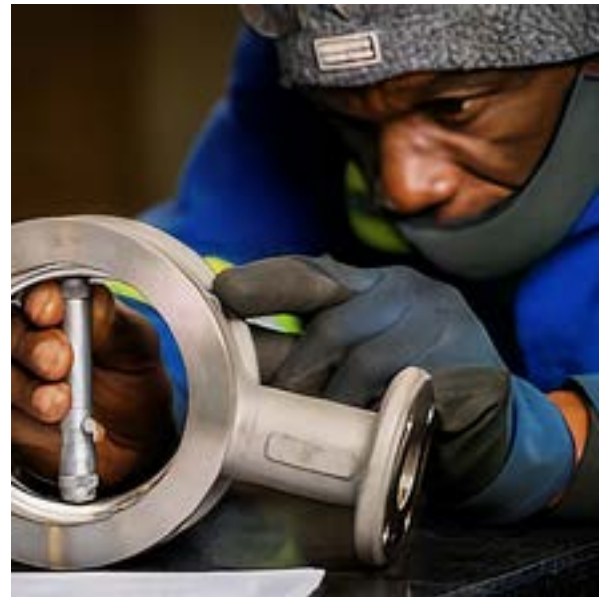
2Roads brings these requirements together through an integrated, turnkey industrial manufacturing and engineering offering. Across our specialist businesses, we manufacture and maintain flow-control equipment; provide advanced and conventional non-destructive testing; statutory and asset-integrity inspection; specialist welding and machining; corrosion and wear protection; and broader engineering and infrastructure solutions.

The value of this model is continuity. Rather than addressing infrastructure challenges in isolation, we can support clients across the asset lifecycle — from manufacture, construction and commissioning to inspection, maintenance, repair, and life extension. This reduces interfaces between multiple suppliers, strengthens accountability, and helps operators manage risk, downtime, and asset performance.

Our perspective is also shaped by where we come from and where we operate. With an industrial base in South Africa, reach across African markets and a presence in Dubai, 2Roads sits at an important intersection between Africa's emerging energy and infrastructure requirements and the Middle East's capital, technology and energy leadership. At ADIPEC 2026, we want to explore partnerships that turn that

geographic advantage into practical industrial capability: stronger regional supply chains, local manufacturing, skills transfer, and resilient infrastructure.

Because where energy opportunity takes shape, the real test is whether infrastructure can keep it flowing.



EXHIBITOR | 5BLUE PROCESS EQUIPMENT HALL: 3 | STAND: 3152

Harnessing underutilised gas for greater value

5Blue's modular gas-processing systems help operators recover valuable hydrocarbons, reduce emissions and bring underutilised resources to market while accelerating the deployment of critical energy infrastructure

Global energy demand is accelerating, driven by industrial expansion, electrification, and the growing power requirements of AI-driven infrastructure. Meeting this demand will require more than new production. It will also require smarter use of the energy already being produced.

At 5Blue, we believe some of the most sustainable energy is the energy already being produced but not fully utilised. Across the natural gas value chain, opportunities remain to recover valuable hydrocarbons, reduce methane losses and flaring, improve gas quality, and bring underutilised and stranded resources to market.

Modular NGL recovery, dehydration, amine sweetening, and refrigeration systems can convert these opportunities into measurable outcomes with recovered hydrocarbons, reduced emissions, improved gas quality, and higher throughput. These gains strengthen pipelines, LNG facilities, storage terminals, offshore platforms, petrochemical complexes and power-generation assets underpinning global energy security.

Resilience also depends on how quickly new capacity can become operational. Complex field construction, lengthy schedules and supply chain uncertainty remain significant sources of project risk. 5Blue designs gas-processing facilities for fabrication, assembly and testing in controlled manufacturing environments before deployment. Modular execution reduces field requirements, improves startup readiness and can enable proven processing facilities to move from concept to operation in months rather than years.

Execution resilience extends into procurement. A diversified international supplier network provides greater flexibility in sourcing critical components while reducing exposure to regional disruptions and procurement bottlenecks.

This approach has supported projects across Canada, the United States, Argentina, Colombia, Peru, Turkey, Egypt, Kuwait and other markets, demonstrating how modular systems can adapt to different operating environments and regulatory requirements.

As AI and data infrastructure place greater demands on power systems, natural gas will continue to support reliable, scalable and affordable power generation in many markets. The efficiency of the infrastructure between production and utilisation, therefore, becomes increasingly consequential.

Energy security, economic performance, and emissions reduction need not be competing objectives. They can be advanced through the same discipline of using existing resources better.

For 5Blue, this is where energy opportunity takes shape by turning underutilised resources into productive, resilient infrastructure.



EXHIBITOR | ACME ENGINEERING PRODUCTS

HALL: 3 | STAND: 3157

Scaling up industrial heat electrification without compromising on efficiency

ACME Engineering Products explains how capacity, space, pressure and operating requirements shape the choice of high-voltage electrode boiler and why it matters in an era of efficiency and electrification



systems, and critical infrastructure where steam is essential. High-voltage electrode boilers can replace fossil-fuel-fired steam production, reducing carbon exposure and diversifying energy sources without major process changes.

The boilers also allow operators to utilise available electricity, including renewable energy, and participate in grid balancing. Today, high-voltage electrode boilers are available well into the tens of megawatts.

At these capacities, however, output is only one consideration. Floor space, building height, retrofit limitations, and operating requirements can also determine boiler configuration.

Horizontal or vertical for hot water

"If you're taking the approach that you are going to remove existing gas fired boilers, you have the floor space, but do you have the height?" asks Robert Presser, President of ACME Engineering, a manufacturer of industrial and commercial boilers.

That is where a horizontal immersed-electrode boiler can have a distinct advantage. According to CT Industrial Oy (CTI), horizontal boiler configurations typically extend to 10-12MW and can be limited to about 3.5 metres in height.

Going vertical for higher output

ACME's CEJW immersed-electrode hot-water line ranges from 2.5MW to 68MW. Above 10 to 12MW, a vertical

configuration becomes necessary, with models typically six to eight meters tall.

Steam changes the selection

With steam, the choice is between jet-type and immersed-electrode technology, both of which are vertical. Jet-type boilers are available for higher steam pressures. ACME lists its CEJS operating pressure ranges at 75 to 500 psig, with output controlled automatically to maintain steam pressure and match system demand.

The immersed-electrode CEJWS can progressively control operating output down to approximately 10% of rated capacity, essentially a 10:1 turndown ratio. From hot standby, the immersed-electrode boiler can reach full load in approximately one minute; from a cold start, full load is reached in approximately 30 to 40 minutes.

Once these factors are considered, the choice depends on how the boiler needs to perform and which factors carry the most weight.

The energy sector must continue to expand capacity to meet growing demand while improving efficiency and reducing dependence on vulnerable fuel supply chains.

For industrial operators, electrifying steam and hot-water production can be part of that equation, particularly as more electricity becomes available from a diversified generation mix that includes natural gas, nuclear, hydroelectric, solar, and wind resources.

This is increasingly important in petrochemical facilities, LNG terminals, midstream operations, district energy

For industrial operators, electrifying steam and hot-water production can be part of that equation, particularly as more electricity becomes available from a diversified generation mix that includes natural gas, nuclear, hydroelectric, solar, and wind resources.

EXHIBITOR | AIZE HALL: 9 | STAND: 9116

Turning complex data into clear decisions

Aize brings asset information, spatial context, and AI together to help energy teams navigate complexity, improve decision-making, and strengthen long-term resilience

Energy resilience begins with understanding the systems we depend on. As demand rises, energy teams need a clear view of assets, information and conditions throughout the value chain across markets and regions. Connecting people and data reduces uncertainty and supports decisions that strengthen long-term reliability.

At Aize, we help teams work with complex energy assets through a digital environment. Aize brings together facility information, spatial context, connected components and real-world conditions. This helps teams find information, understand how it relates to the asset and collaborate across disciplines. By making trusted information available before site visits, organisations can validate work remotely, reduce travel and rework, and make confident investment decisions with less dependence on site access. It also gives teams across borders a shared basis for planning, delivery and operations.

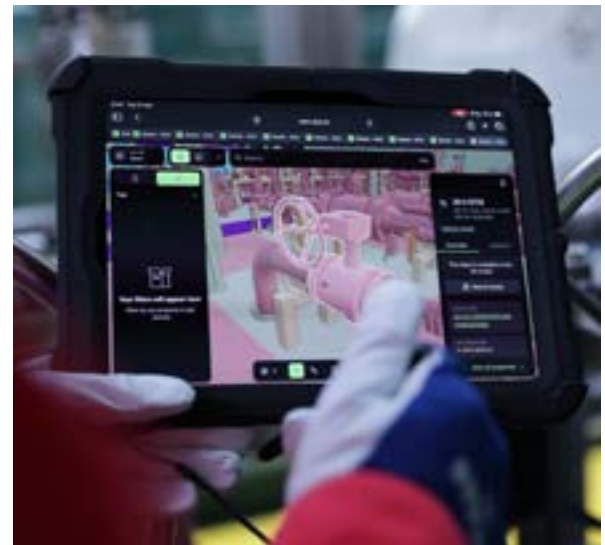
Opportunities and challenges of AI

The growth of AI brings both opportunity and pressure. AI can help the sector manage increasing volumes of data and complexity, but it also creates new demand for power and raises questions about trust, security and control. We believe AI must work in context. The next generation of Aize is being developed to connect AI with the spatial and technical context of assets, helping teams reach insights faster and apply expertise more effectively. This supports better use of existing infrastructure and helps teams focus investment where it can deliver value.

This matters across offshore platforms, pipelines, processing facilities and the infrastructure connecting generation, storage and distribution. Aize integrates information from existing systems and presents it in 2D and 3D views, asset relationships and searchable data. The result is shared understanding that supports engineering, maintenance, project delivery and operations.

At ADIPEC 2026, we are excited to showcase the next generation of Aize and explore how digital insight can strengthen resilience. We look forward to meeting people building, operating and investing in energy systems that will support rising demand.

Progress will depend on technology and collaboration. By helping teams see the picture and act on trusted information, we support greater confidence, security and long-term resilience for the energy sector.



EXHIBITOR | AL FANAR GAS GROUP HALL: 4 | STAND: 4252

Connecting infrastructure to an intelligent future

Al Fanar Gas Group is bridging physical infrastructure and digital technologies to improve asset visibility, operational efficiency and resilience

As global energy demand continues to grow, resilient, efficient and future-ready infrastructure is essential to long-term energy security. With more than 35 years of experience in the gas industry, Al Fanar Gas Group is committed to advancing reliable energy infrastructure through innovation, technology and operational excellence.

Connecting physical infrastructure with digital intelligence

At ADIPEC 2026, under the concept "Two Worlds. One Intelligent Environment", Al Fanar highlights the evolution of physical infrastructure into an integrated digital ecosystem. Its digital transformation vision connects gas and utility networks with emerging capabilities such as Digital Twins, subsurface mapping, Ground Penetrating Radar (GPR) and connected operations.

These technologies can improve infrastructure visibility, inform decisions, strengthen asset planning and help reduce operational risk. Better insight into underground utilities and connected assets can also support more resilient infrastructure management.

An interactive vision of the future

At ADIPEC, Al Fanar is exhibiting a Digital Experience Hub, with immersive visualisations, virtual reality and interactive digital demonstrations. The experience illustrates how physical assets and digital intelligence can work together to support safer, smarter, and more connected operations.

Shaping tomorrow's energy infrastructure

Aligned with ADIPEC's theme, "Where Energy Opportunity Takes Shape," Al Fanar continues to explore innovative approaches that combine engineering expertise with emerging technologies. By bringing together decades of industry

experience and a forward-looking digital vision, the company aims to contribute to a more secure, sustainable and resilient energy future.



EXHIBITOR | ALMANSOORI PETROLEUM INDUSTRIES

HALL: 6 | STAND: 6351

Route to resilience can be strengthened via local manufacturing and strong partnerships

Adel Baobaid, President, **AlMansoori Petroleum Industries**, details the benefits of manufacturing closer to your customers, including reduced dependence on remote supply chains and improved delivery responsiveness



Energy resilience depends on the industry's ability to meet growing demand while maintaining reliable supplies, improving efficiency and investing for the future. This requires a balanced approach: sustaining essential oil and gas infrastructure, supporting lower emission operations and strengthening the industrial capabilities that keep energy systems running.

At AlMansoori Petroleum Industries (AMPI), our contribution starts with local engineering and manufacturing, supported by international technology partnerships. Through Specialized Oilfield Products (SOP) and Micoda Process Systems International, we provide wireline and well-service equipment, pressure vessels, process equipment and integrated process packages that support critical energy operations.

Power of proximity

Manufacturing closer to customers helps reduce dependence on distant supply

chains, improve delivery responsiveness and provide accessible technical support. Combining these capabilities with rigorous quality standards helps customers manage project execution risk and protect asset performance throughout the equipment lifecycle. International partnerships complement this local foundation by connecting proven technologies with regional knowledge and manufacturing capacity.

Artificial intelligence presents both an opportunity and an infrastructure challenge. It can help operators anticipate failures, optimise maintenance and improve productivity, while the expansion of data centres increases the need for dependable electricity.

Our role is to support the reliable energy production and processing infrastructure behind that demand. We also see opportunities to apply digital project controls, equipment monitoring and AI-assisted planning where they deliver measurable operational benefits.

“Our priority is to develop partnerships that translate innovation into dependable solutions, stronger local supply chains and sustainable industrial growth.”

Security in capability

Our equipment contributes to resilience at the operational level. SOP supports well intervention activities that help operators maintain producing assets, while Micoda's engineered process packages support the safe handling and processing of energy resources. Reliable equipment, maintainability and responsive support help strengthen the facilities on which wider energy security depends.

At ADIPEC 2026, we look forward to showcasing our manufacturing capabilities and exploring practical advances in equipment reliability, process efficiency and digital integration. Our priority is to develop partnerships that translate innovation into dependable solutions, stronger local supply chains and sustainable industrial growth. The theme, “Where Energy Opportunity Takes Shape”, reflects our commitment to turning collaboration into industrial capability.

For AMPI, resilience means helping customers deliver energy reliably today while building the skills, partnerships and manufacturing strength needed for tomorrow's energy requirements.

EXHIBITOR | AL GHAITH ENERGY LLC

HALL: 5 | STAND: 5120

Stability from innovation and diversity

Atif Arikat, Chief Executive Officer, **Al Ghaith Energy LLC**, gives the advantages of his company's diverse portfolio of services, equipment and talent, alongside local manufacturing capabilities, facilities and strategic partnerships

The energy sector can help balance rising global energy demand with the imperative for resilience and long-term security through investment in advanced technologies, digital solutions and sustainable products and services. Oil and gas will continue to play a vital role in supporting economic growth and energy stability. Therefore, strengthening supply chains, investing in local manufacturing, improving operational efficiency are essential.

Enabling operational continuity

Through a diverse portfolio and integrated oilfield services, advanced technologies, locally available equipment and experienced workforce, Al Ghaith Energy helps its clients to minimise downtime, mitigate operational risks and maintain continuity of operations. Al Ghaith Energy's local manufacturing capabilities, facilities and strategic partnerships strengthen supply chain resilience and de-risk investments.

Meeting the AI challenge

AI must be supported by reliable energy infrastructure, efficient operations, and resilient supply chain. Al Ghaith Energy's local manufacturing capabilities, and technology partnerships can help address this challenge by improving operational efficiency, reducing downtime, and supporting the reliable delivery of energy. Al Ghaith Energy's technologies and integrated oilfield services support the development, expansion, and reliability of critical energy infrastructure, including pipelines, storage facilities, platforms.

Service range for better operations

Through Al Ghaith Energy's specialised services such as tubular running, cementing and pressure pumping, coiled tubing, directional drilling, fishing and

downhole tools rental, and many other services, we help ensure safe and efficient operations.

During ADIPEC 2026, Al Ghaith Energy is excited to be showcasing our integrated oilfield services, advanced technologies and local manufacturing capabilities - all of which enhance operational efficiency, strengthen supply chain resilience, and support reliable energy delivery.

Al Ghaith Energy is particularly focused on innovative drilling and well intervention solutions, digital technologies and strategic partnerships that reduce operational risks, optimise costs, and improve performance.

We invite ADIPEC visitors to visit the Al Ghaith Energy stand 5120, in Hall 5. And we look forward to welcoming you and exploring opportunities for collaboration and partnership.



AL SALEHI MACHINERY & EQUIPMENT REPAIRING

HALL: 15 | STAND: 15422

Keeping the engines of energy running

Al Salehi Machinery & Equipment Repairing LLC explains how it plays its part in managing energy security with its diesel service capabilities and maintenance programmes for fleets and critical power assets

Energy security is often discussed in terms of reserves, pipelines and grids. Yet resilience also depends on something more practical: the diesel engines that power drilling rigs, standby generators, pumping stations, marine vessels, and the heavy fleets that move equipment to remote sites. When one of these assets stops, operations stop with it. At Al Salehi Machinery & Equipment Repairing LLC, Bosch's appointed mobility aftermarket distributor in the UAE, our focus is keeping that equipment running. Our four certified service centres, including Bosch Diesel Service, Delphi, Asimco and VDO, give operators access to OEM-standard diagnostics, fuel-injection repair and calibration close to where their assets work.

Securing the supply chain

Unplanned downtime is often a parts problem. Recent global disruption has shown how quickly lead times stretch when components must be sourced from overseas at short notice. By holding genuine aftermarket stock from Bosch and nine other leading brands locally, we shorten that chain, reduce dependence on emergency imports and help customers plan maintenance with confidence. Genuine parts and certified repairs also extend equipment life, protecting the capital invested in it.

Supporting the power behind AI

The rapid growth of data centres is driving new demand for reliable backup power, much of it diesel-based. Standby generators must start first time, every time. Precision fuel-injection servicing, tested to manufacturer specifications, is central to that reliability, and to keeping fuel consumption and emissions under control.

Fortifying critical infrastructure

From offshore support vessels to pipeline pumping and remote power generation, diesel systems remain the backbone of many energy operations in the Gulf. We extend

their service life through preventive maintenance, fast-turnaround repairs and technical expertise operators can call on locally.

At ADIPEC 2026

Visitors to our stand can explore our diesel service capabilities and aftermarket portfolio, and discuss maintenance programmes for fleets and critical power assets. In line with this year's theme, "Where Energy Opportunity Takes Shape", we believe resilience is built on dependable local partners who keep the energy sector's essential equipment working.



EXHIBITOR | BAJAJ POWER EQUIPMENT

HALL: 16 | STAND: 16574

Leveraging the reliable steam frameworks that are central to many industrial processes

Bajaj Power Equipment (BPE) says it is at ADIPEC to showcase solutions that help strengthen critical steam infrastructure, enhance operational resilience, and support long-term industrial growth



Against a backdrop of evolving energy markets, shifting supply chains, rising industrial demand and expanding infrastructure requirements, energy resilience has become a strategic imperative.

Building resilience requires more than securing fuel supply or adding capacity - it depends on critical industrial infrastructure that can deliver safe, efficient and reliable performance throughout its operating life while supporting the operational continuity that modern industries demand.

For refineries, petrochemical complexes, fertiliser plants, desalination facilities and utility operators, dependable steam generation remains essential to production continuity.

Steam systems sit at the heart of many industrial processes, making their reliability a key determinant of plant performance, operational efficiency

and asset availability. The resilience of these operations is shaped not only by investment in new assets, but also by the reliability, maintainability and longevity of existing infrastructure.

The Bajaj benefit

BPE supports this challenge through advanced boiler engineering, manufacturing, modernisation and lifecycle support.

Steam systems sit at the heart of many industrial processes, making their reliability a key determinant of plant performance, operational efficiency and asset availability.

As an ADNOC Approved Vendor for boilers and boiler spares and

accessories, with more than 35 years of engineering expertise and an ASME-certified manufacturing facility, we deliver oil and gas-fired boilers from 20 TPH to 150 TPH, supporting greenfield developments, brownfield expansions and asset replacement projects across the industrial sector. Our capabilities enable operators to strengthen steam generation infrastructure while aligning performance, reliability and lifecycle objectives.

A critical dimension of energy resilience lies in maintaining and upgrading existing assets.

Ageing pressure parts can increase operational risk, reduce efficiency and contribute to unplanned outages. BPE provides engineered replacement and life-extension solutions for steam drums, water-wall panels, superheaters, reheaters, economisers, headers and boiler tubing systems, across both OEM and non-OEM installations.

These solutions help operators enhance reliability, extend asset life, improve plant availability and minimise disruption to operations. As industries become increasingly digital, and power and steam demand continues to grow, resilient utility infrastructure will become even more important.

Future-ready steam systems must be designed and maintained with reliability, efficiency, flexibility and lifecycle performance at their core.

Through integrated engineering, manufacturing and commissioning expertise, BPE remains committed to enabling reliable energy infrastructure for the industries that power economic development.

EXHIBITOR | ALKHORAYEF PETROLEUM COMPANY

HALL: 4 | STAND: 4170

Engineering efficiency into every active well

Alkhorayef Petroleum Company combines production technology, localised manufacturing and operational expertise to help operators sustain output, improve efficiency and reduce downtime

As global energy demand continues to rise, resilience will increasingly be characterised by the ability to sustain production, improve efficiency, and strengthen the infrastructure and supply chains that support the energy system. Against this backdrop, Alkhorayef Petroleum Company (APC) has developed its solutions to add value at critical points across the production lifecycle.

For producers, success depends on getting more from existing assets while reducing downtime, managing costs, and adapting to the most complex and challenging operating environments. APC addresses these challenges through production enhancement and infrastructure solutions spanning artificial lift, wireline and slickline, mining services and production infrastructure. The company operates across 15 countries, supported by localised manufacturing, service centres and technical teams deployed in proximity to customers.

Artificial lift is at the heart of the business, with electric submersible pumps (ESPs) widely used to sustain and optimise production as reservoir pressure declines and fields mature. With approximately 15,000 ESPs installed worldwide, APC's capabilities span technology engineering, manufacturing, installation,

monitoring, maintenance, and failure analysis, supported by five manufacturing facilities and three R&D centres.

Meanwhile, cutting-edge technology is helping operators improve resilience at the asset level. APC's SPECTRUM PMM and MaxiLift solutions have demonstrated system-efficiency improvements of 15-20% and reductions in power costs of up to 20% per well per day, while longer equipment run life helps reduce intervention requirements and downtime.

Supply chain resilience is another important part of the equation. APC combines centralised sourcing with regional manufacturing, local inventory, assembly, repair and testing capabilities, helping to shorten response times and reduce exposure to logistics bottlenecks.

APC's focus at ADIPEC 2026 will be to demonstrate how technology, localisation and operational expertise can make energy production more reliable, more efficient, and more resilient. In practice, that means helping operators sustain output, reduce downtime, improve energy efficiency, and strengthen the local and regional infrastructure that enables long-term global energy security.



EXHIBITOR | ALMAS GROUP LOGISTICS MENA

HALL: 15 | STAND: 15430

Connecting Iraq's energy sector with the world

Almas Group Logistics combines local expertise, global reach and project cargo capabilities to navigate Iraq's complex logistics landscape

Iraq is one of the world's most significant energy markets – and it is opening up. As infrastructure investment accelerates and new energy projects take shape across the country, demand for experienced, reliable logistics has never been greater. Since 2009, Almas Group Logistics has been here to meet that demand.

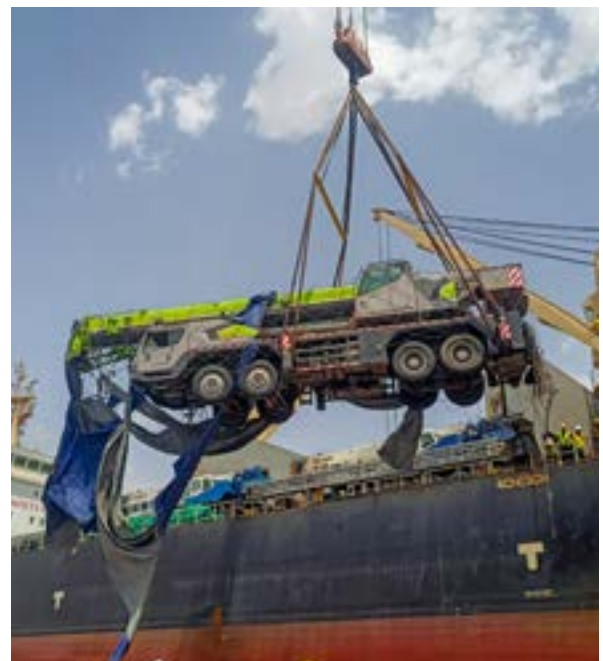
Headquartered in Erbil, with offices across Iraq, we specialise in freight forwarding and project cargo for the oil and gas, construction, and heavy industry sectors. From heavy lift and breakbulk to full project cargo management, we operate across all Iraqi borders and entry points, with a strong operational presence at Umm Qasr Port, Iraq's primary gateway for energy-sector imports.

Energy resilience goes beyond generation and technology. It also depends on the ability to move oversized equipment through complex customs environments, across challenging terrain, and on schedule. In energy projects, delays are not just costly; they can have critical consequences. This is where structured, experienced logistics makes the difference.

Our network spans more than 45 countries, connecting Iraq with key global trade lanes, including China, the UAE, and the USA. We serve oil and gas operators, EPC contractors, and industrial clients that need a logistics partner capable of handling complex cargo with the expertise, visibility, and control required at every stage.

As energy infrastructure investment accelerates across the region, reliable logistics into Iraq is becoming increasingly strategic. Supply chain failures in this market affect more than individual projects; they can impact energy output, investment confidence, and long-term regional stability.

We believe that a resilient global energy future is built on dependable supply chains. Iraq is central to that future, and Almas Group Logistics is committed to keeping it connected.



EXHIBITOR | BUREAU VERITAS

HALL: 9 | STAND: 9330

Taking care of the systems that keep the energy moving by drawing on proven experience

Bureau Veritas combines assurance, AI-enabled digital tools and expertise to strengthen resilience across the energy value chain at a time when stakeholders are seeking competitive and sustainable performance



and certification. To support supply-chain integrity, it provides procurement assessment, manufacturing surveillance, and traceability, which are critical as supply-chain pressures intensify. Its operational excellence capabilities include asset-integrity services, battery energy storage support, and specialised offshore and pipeline expertise.

Bureau Veritas also supports cross-order energy developments through regulatory compliance and certification.

Confidence in energy infrastructure requires oversight at every stage.

Energy resilience is no longer optional; it is foundational. As electrification accelerates, AI-driven demand surges, and supply chains face unprecedented pressures, the energy sector must deliver reliable power through disruption while managing increasingly complex digital and physical assets. This convergence demands a new standard: assurance that spans both the digital infrastructure powering the transition and the physical assets delivering it.

Digital transformation as a resilience multiplier

Digitalisation is reshaping how energy infrastructure performs. Data centres, electrified grids, and AI-enabled systems drive the economy, their reliability directly determines energy system resilience. Bureau Veritas leads this transformation through:

- AI-enabled asset intelligence: Automated data collection, image-

recognition technologies, and predictive analytics deliver real-time visibility into asset integrity and maintenance needs.

- Mission-critical infrastructure assurance: Commissioning, quality assurance, and quality control for data centres that power the digital economy.
- Lifecycle grid services: End-to-end power-grid oversight integrating digital monitoring with physical asset management.

Together, these capabilities help shift maintenance from a reactive approach towards predictive performance.

End-to-end assurance across the energy value chain

Confidence in energy infrastructure requires oversight at every stage. Bureau Veritas provides integrated services that reduce uncertainty and strengthen resilience. Its project certainty services include early-stage due diligence, design review,

Infrastructure expertise for the energy transition

Resilience depends on the integrity of foundational infrastructure. Bureau Veritas provides full lifecycle support for battery energy storage systems, from permitting through operational integrity. Its offshore capabilities include safe construction and operational oversight, while its pipeline infrastructure services cover construction inspection, regulatory compliance, and asset integrity management.

At ADIPEC 2026, Bureau Veritas will demonstrate how the convergence of assurance, AI-enabled digital tools, and deep infrastructure expertise creates measurable resilience across the energy value chain. Combined with the shift towards audited, performance-based sustainability, these integrated capabilities help energy stakeholders transform resilience ambitions into competitive, sustainable performance.

EXHIBITOR | ARABIAN INDUSTRIES

HALL: 16 | STAND: 16597

Engineering resilience through local capabilities

Arabian Industries explains how it is focusing on solutions that help operators maximise existing assets, remove supply chain dependencies, accelerate localisation and integrate digital innovation

The industry faces a defining challenge as global energy demand rises - specifically how to expand energy availability while making the systems that produce, process, transport and deliver it more resilient. At Arabian Industries, we believe the answer lies in combining engineering capability, local industrial capacity, digital intelligence and strong cross-border partnerships.

Energy resilience starts with infrastructure that can withstand disruption and continue performing safely and efficiently. With more than six decades of experience, Arabian Industries supports the energy value chain through manufacturing, EPC projects, maintenance and turnarounds, logistics and specialist industrial services. By combining these capabilities with regional manufacturing and skilled workforces, we help customers reduce supply chain dependencies, strengthen local capability and improve asset reliability throughout the lifecycle.

Enabling opportunity

Technology is increasingly transforming how critical assets are maintained. Arabian Industries is advancing autonomous maintenance solutions, including robotic tank cleaning, robotic paint removal and drone-assisted inspections, reducing personnel exposure to hazardous environments while improving inspection quality, efficiency and asset intelligence.

These technologies are complemented by digital data, enabling us to fine-tune maintenance planning, capture and learn from historical lessons, identify recurring risks and proactively manage them before they become operational issues.

The accelerating adoption of AI adds another dimension. While AI can enhance predictive maintenance, HSE management, asset integrity and operational

decision-making, its growing computational requirements are also increasing demand for reliable power.

The industry must, therefore, strengthen both its digital capabilities and the infrastructure that powers them. During ADIPEC 2026, under the theme "Where Energy Opportunity Takes Shape," we look forward to demonstrating how resilience can become a platform for opportunity. Our focus is on solutions that help operators maximise existing assets, strengthen supply chains, accelerate localisation and integrate digital innovation with practical industrial execution.

For Arabian Industries, energy opportunity takes shape when technology becomes capability, data becomes foresight, and resilient infrastructure delivers dependable energy.



EXHIBITOR | ARABIAN OCEAN SERVICES (AOS)

HALL: 6 | STANDS: 610, 614 & 620

Where energy opportunity is taking shape

AOS says energy future is not just about producing more, but building resilience, intelligence and partnerships that allow the industry to continue, through disruption, change and onto opportunities ahead

Arabian Ocean Services (AOS) says there is a powerful idea embedded in the word CONTINUE.

Continue and UAE come together to express a simple, but important thought: the UAE continues to move forward.

For more than five decades, energy has been central to the UAE and regional transformation; these natural resources helped build one of the world's most important energy supply chains.

But AOS says the story goes far beyond energy to one of cities built from the ground up, world-class infrastructure, diverse communities and a quality of life that makes the UAE a place where people from around the world come to work, innovate, invest and call home. AOS says what makes this transformation remarkable is not simply what was built, but the resilience to continually evolve what comes next; the same principle that is increasingly important for the global energy industry.

As demand rises and the operating environment becomes more complex, long-term security will depend not only on producing more energy, but ensuring the assets, people, infrastructure and supply chains behind it can withstand disruption and continue to perform.

This idea of continuity has been central to the AOS journey. For 25-plus years, it has supported the Middle East oil and gas, marine and industrial sectors, developing supply chain capabilities that help customers reduce delays, manage complexity and keep critical operations moving. Now AOS is taking that experience into the digital era. "We believe technology should strengthen human capability, not replace it," says its spokesman. "AI can solve the middle part of an operational challenge exceptionally well, but people remain essential to identify the problem, interpret

the intelligence and decide what action should follow. The real opportunity lies in bringing human judgement and machine intelligence together."

AOS' AI- and IoT-enabled solutions apply intelligence to critical operations through Asset Performance Management, Asset Tracking, Digital HSE and Tool Management. Predictive maintenance can identify equipment issues before they become failures. Intelligent supply chain systems anticipate warehouse and procurement requirements. Digital HSE can provide greater visibility into worker, PPE and safety conditions.

At ADIPEC, AOS will bring these capabilities together as one connected proposition: helping customers see their assets, people and supply chains in real time, anticipate risk and make better decisions before disruption occurs.



EXHIBITOR | CHIYODA CORPORATION

HALL: 16 | STAND: 16455

Maximising plant understanding with data insights to unlock capacity

Chiyoda Corporation explains how it offers engineering knowledge, plant data and AI to preserve operational expertise, unlock capacity and strengthen the resilience of ageing assets



in Asia, with no facility modifications and no capital investment, unlocking capacity from assets already built.

The digital layer is exposed too. Operations are becoming software-defined rather than tied to hardware; AI technology is replaced ever more often, while operators are wary of locking their data into any one vendor. We are vendor-neutral.

Our work turns the real context of a plant into AI-ready data that belongs to the asset, not to any specific tool. Tools can change freely. Even the dashboard doesn't need a vendor platform because AI generates the view an operator needs on demand. That is data resilience and architectural resilience.

At ADIPEC 2026 we will show how energy opportunity takes shape inside the assets the world already owns.

Resilience is usually discussed as hardware. But the most common exposure is not mechanical. Plants designed for 20- to 30-year lives are running well past that horizon, and the engineers who know how they behave are retiring faster than they can be replaced. When that knowledge leaves, no spare part can fill the gap.

Chiyoda Corporation is a global engineering company with more than 70 years of experience in the energy sector, spanning LNG, refining, petrochemicals and power. plantOS™ is Chiyoda's post-EPC platform, integrating Engineering Services, Reliability Assurance (ChAS®) and Advanced Plant Digitalisation.

AI alone cannot restore that knowledge. Anyone can buy AI technology; nobody

can buy an understanding of your plant. Pattern matching is not judgement, and judgement is what an operator needs when a plant departs from its design parameters and the expert is no longer there to ask.

Having designed and built many of these facilities, we hold both the original design intent and the observed behaviour of the same asset.

Reconciling the two turns plant data into decisions that an operator can defend, with or without the engineer who used to make them.

Resilience also means meeting demand without new builds. LAIO, our LNG Plant AI Optimizer, has delivered an increase of up to 5% in annual production in production in commercial LNG operations

AI alone cannot restore that knowledge. Anyone can buy AI technology; nobody can buy an understanding of your plant. Pattern matching is not judgement, and judgement is what an operator needs when a plant departs from its design parameters and the expert is no longer there to ask.

EXHIBITOR | AUTOCHIM SYSTEMS

HALL: 16 | STAND: 16022

Bringing AI intelligence to energy's frontline

Autochim Systems and **i.safe MOBILE** are offering AI-enabled smartphones to hazardous environments, strengthening workforce safety, efficiency and operational resilience

As global energy demand continues to accelerate, the resilience of our industry is decided not only in control rooms and boardrooms but in the hands of the field personnel who operate, inspect and maintain critical assets every day. At ADIPEC 2026, Autochim Systems and i.safe MOBILE, our partner since 2012, are jointly showcasing the latest generation of intrinsically safe smartphones, built to bring edge AI to the field. Powered by AI-capable Qualcomm chipsets and certified for use in hazardous areas, these devices combine 5G connectivity and on-device intelligence in a pocket-sized form factor.

What sets this generation apart is the high processing capacity supporting edge AI applications for the energy sector, backed by advanced cybersecurity capabilities. For operators, this translates into enterprise-grade security, consistent updates and centralised management across entire device fleets, with zero compromise. With the IS540.1, we have already helped field teams digitise permits to work, maintenance work orders and inspection checklists. The new AI-capable generation builds on that proven foundation.

In fact, on-device AI can read analogue gauges from a photo, flag corrosion or leaks during inspections, turn spoken observations into structured reports hands-free and translate instructions instantly for multinational crews. On infrastructure such as the energy industry's largest private 5G network, developed by ADNOC and e&, these devices help maximise the return on investment at the frontline.

These capabilities are designed for field workers of all levels, from technicians to operators and supervisors to HSE teams. When every field worker carries the same secure, intelligent tool, organisations build a workforce that is ready and equipped for the unexpected.

Fewer delays, safer operations, more reliable assets and a digital backbone that scales with demand; this is what resilience looks like on the ground. Putting the right technologies in the right hands will remain one of the fastest ways to turn ambition into delivery.

We look forward to welcoming you at Hall 16, Stand 16022 to experience the next generation of intrinsically safe, AI-ready mobility.



EXHIBITOR | BARRIQUAND HEAT EXCHANGERS

HALL: 15 | STAND: 16273

Engineering resilience and efficiency

French company **Barriquand Heat Exchangers** outlines how its solutions can help reduce energy consumption, operating costs and associated emissions as part of the energy industry's evolution

As global energy demand continues to rise, the energy sector must balance operational performance, supply security and long-term resilience. Reliable, energy-efficient process equipment is essential to achieving these goals. Barriquand Heat Exchangers contributes to this challenge through the design and manufacture of Platular® easy-to-clean, wide-gap welded plate heat exchangers, combining efficiency, robustness and cleanability for demanding oil and gas applications. Serving engineering companies, plant operators and EPC contractors, Barriquand delivers 100% custom-built thermal solutions across the hydrocarbon processing and transportation value chain. From gas processing and refining to offshore platforms, FPSOs and marine applications, our equipment supports critical operations where reliability, process continuity and lifecycle costs matter.

Tailored exchanger process

Our approach helps reduce operational risks by matching each heat exchanger to its specific process requirements. Gasket-free welded plate packs, wide-gap channels designed for cleanability, and carefully selected materials - including stainless steel, duplex, super-duplex and high-performance nickel alloys - enable solutions tailored to demanding operating conditions. With working pressures up to 40 bar and temperatures up to 600°C, Platular® units offer design flexibility for challenging industrial duties.

Energy efficiency is another key lever for strengthening energy security. By optimising heat transfer and enabling heat recovery where process conditions allow, our solutions can help reduce energy consumption, operating costs and associated emissions. Compact, modular designs also support space-constrained installations, including offshore facilities, where footprint, maintainability and dependable performance are critical.

Rising to the challenges

As digitalisation and AI expand across the energy industry, efficient thermal management remains fundamental to reliable industrial operations. While new digital capabilities create opportunities for smarter process optimisation, the infrastructure supporting them must also operate safely and efficiently.

Barriquand contributes through engineered heat-exchange solutions designed around real-world process demands. At ADIPEC 2026, we look forward to engaging with operators, engineering partners and EPC contractors to explore resilient, energy-efficient solutions for the industry's evolving challenges. Whether for gas-to-gas exchange, amine and glycol systems, condensers, evaporators or specialised heating and cooling duties, Barriquand turns demanding process requirements into tailored thermal engineering solutions.

Challenge us with your next demanding project.



EXHIBITOR | DIGITAL UPSTREAM

HALL: 11 | STAND: 11671

The route to optimising every cubic metre of gas and securing material gains in resilience

Digital Upstream uses physics-based digital twins with multi-agent AI to optimise energy use, production, and decision-making across the gas value chain as broader systems undergo change



transfer point. Each discipline sees part of the picture, while every decision changes conditions elsewhere.

Digital Upstream begins with an integrated, physics-based digital twin. It maintains a consistent material and energy balance across the asset and tests operational scenarios before implementation.

Building on this physical foundation is a multi-agent AI system with more than 20 specialised agents already at work. They coordinate engineering tasks, generate and run scenarios, identify bottlenecks, compare energy and production trade-offs, check constraints and present traceable recommendations for expert review.

At one billion cubic metres per year, improving energy intensity by just 1-3% could save approximately 10 to 30 GWh annually.

How much energy does it take to deliver one saleable cubic metre of gas?

Publicly reported operating data give the scale. Expressed as electrical-energy equivalents, gas production requires about 0.21 kWh per cubic metre. Gas processing adds approximately 0.59 kWh per cubic metre, while trunkline transportation adds around 0.20 kWh per cubic metre for every 1,000 kilometres. Processing liquid hydrocarbon feedstock, including gas condensate, requires approximately 0.38 MWh per tonne.

These are benchmarks, not universal constants. Field maturity, reservoir pressure, fluid composition, product specifications, facility design and

transportation distance all affect the result. Still, production, processing and 1,000 kilometres of transportation can consume roughly 1 kWh for every cubic metre of saleable gas.

At one billion cubic metres per year, improving energy intensity by just 1-3% could save approximately 10 to 30 GWh annually. For one million tonnes of liquid hydrocarbons, the same processing improvement could save around 4-11 GWh.

The challenge is not a lack of engineering expertise. It is continuously optimising the entire chain as one system, from reservoir and wells to gathering networks, gas treatment, facilities and the custody-

This is not a replacement for engineers. It extends their reach across the whole system, shortens the path from changing conditions to a validated decision and turns small percentage improvements into material gains in resilience.

At ADIPEC 2026, Digital Upstream will demonstrate how this approach helps make “Where Energy Opportunity Takes Shape” an operational reality.

EXHIBITOR | BRADY CORPORATION

HALL: 15 | STAND: 15304

Modern industrial label printing unplugged

Brady Corporation brings benchtop printing performance to the field with its new cordless, portable BradyPrinter i4311

Brady Corporation is taking industrial label printing beyond the benchtop with the new BradyPrinter i4311, combining the capabilities of a stationary printer with the flexibility of a cordless, portable device.

One of the traditional limitations of mobile label printers has been maximum label width. The i4311 extends this to 101.60 mm, widening the range of applications that can be handled by a portable, connected label printing system.

The larger print width brings more applications within the scope of mobile label printing, including perforated work-in-progress tags, commonly sized rating plates and larger cable tags, wraps, sleeves, asset labels, component labels and GHS-compliant chemical labels.

The printer is powered by a battery capable of producing up to 5,000 large labels on a single charge. Batteries can be easily swapped and recharged in 3.5 hours, while a battery-saving function helps conserve when the printer is not in use.

The BradyPrinter i4311 can print labels from phones, tablets and laptops, as well as from central company systems. In addition to Wi-Fi and Bluetooth connectivity, the i4311 also features Ethernet and USB-C connections. Its onboard seven-inch (17.78 cm) touchscreen provides device support and enables users to print labels directly from the printer.

The printer also works with Brady's free Express Labels mobile apps. Users can, for instance, select text from an image file and import it for printing on a label, or scan barcodes using a phone and send them directly to the printer. Labels can even be printed hands-free, using voice commands through BradyVoice, a smartphone and the BradyPrinter i4311.

Despite its capabilities, the printer has a compact footprint of 23 x 23 x 33 cm and weighs 5.9 kg with an easy grip handle designed to support portability.



EXHIBITOR | CANNON ARTES

HALL: 2 | STAND: 2112

Closing the loop in water management

Cannon Artes is helping energy companies build resilience through smarter water treatment, recovery, and reuse

At Cannon Artes, we believe that a future-proof approach for the energy sector must look beyond energy production itself and address the critical resources and environmental constraints that can affect the reliability of industrial operations.

Water scarcity is becoming an increasingly important factor in energy investment and infrastructure planning. As pressure on freshwater resources grows, energy-intensive industries are being driven to seek solutions that reduce water consumption, maximise reuse and limit their dependence on vulnerable water supplies. This is particularly relevant for carbon capture facilities, where water demand is expected to increase fivefold in less than 10 years. Integrating water treatment and reuse strategies into project design can help reduce resource requirements and support the reliable operation of carbon capture systems over their lifetime. Cannon Artes is playing an active role in carbon capture with five ongoing projects across four different sectors on three continents.

For energy companies, water management is also becoming increasingly important in the upstream segment. A rising water cut in producing fluids means that greater volumes of produced water need to be effectively managed, while declining reservoir pressure can require increasing volumes of water to be injected for waterflooding. Technologies that enable water recovery, reuse, and high-quality treatment can help protect operations against growing resource constraints, regulatory pressure, and changing environmental conditions. They can also facilitate the development of energy projects in regions where water availability may otherwise represent a significant limitation.

At ADIPEC 2026, we look forward to exploring how integrated water management can support the energy infrastructure of the future. By combining advanced treatment technologies with water reuse and solutions that address emerging needs and applications, the industry can move towards infrastructure that is not

only more efficient today but also better equipped to respond to tomorrow's challenges.

Future-proofing energy infrastructure ultimately means anticipating constraints before they become bottlenecks and ensuring that critical resources such as water are managed as strategically as energy itself.



EXHIBITOR | DOLPHIN GROUP

HALL: 10 | STAND: 10212

Taking care of the systems that keep the energy moving by drawing on proven experience

Dolphin Group is showcasing how UAE-based engineering, manufacturing capability and long-term thinking can help build a more resilient energy ecosystem as part of the world's shifting industry priorities



The package was delivered during the height of the COVID-19 pandemic, when global supply chains and industrial operations faced unprecedented disruption. Our work has also extended to critical nuclear energy applications, including the engineering for a refurbishment of a feedwater heater with improved efficiency.

These experiences demonstrate that energy resilience is not only about the equipment itself. It is also about having the engineering expertise, manufacturing capability and supply-chain responsiveness to deliver critical solutions when conditions are challenging.

As a UAE-based engineering and manufacturing company, Dolphin is also contributing to strengthening the local industrial ecosystem by developing and manufacturing critical equipment within the UAE, supporting greater supply-chain resilience and local capability for the energy sector. When complex equipment can be engineered and manufactured closer to where it is needed, industries gain greater control over critical supply chains, faster access to technical support and greater confidence in long-term operational continuity.

As energy systems evolve, these capabilities become increasingly important. The growth of AI, data centres and other power-intensive technologies is creating new demands on energy infrastructure, while established energy facilities continue to require dependable equipment throughout their operating lives.

Thermal management remains fundamental to meeting these demands.

As global energy demand continues to rise, resilience is no longer only about securing energy supply.

It is also about ensuring the infrastructure behind that supply can perform reliably, efficiently, and safely over the long term. Much of this infrastructure operates out of sight. Heat transfer equipment and thermal systems are essential to power generation, oil and gas, petrochemical and other energy-intensive operations, yet their importance can often go unnoticed until performance is compromised.

Dolphin Group believes resilience begins with engineering equipment for the realities of its operating environment. Since 1986, we have designed, engineered, manufactured and serviced critical heat transfer equipment and thermal systems for demanding industrial applications.

Our experience reflects the depth of capability required to support critical energy infrastructure. For one of the world's largest oil and gas companies, we designed, manufactured and supplied a complete air-cooled heat exchanger package for lethal sour gas service, one of the most demanding environments in the industry.

Dolphin Group believes resilience begins with engineering equipment for the realities of its operating environment.

EXHIBITOR | CARL STAHL

HALL: 5 | STAND: 530

German engineering heritage in the Middle East

With almost 150 years of experience, **Carl Stahl** has the German engineering know-how and global network to help keep critical energy operations efficiently and safely on track

Few companies at ADIPEC 2026 come with the history that Carl Stahl brings.

It has grown a global network of more than 70 locations across four continents since its foundation in Süssen, Germany, way back in 1880. Operating locally since 1995, Carl Stahl Middle East maintains an established presence in the UAE and Saudi Arabia. The company says that energy resilience depends on safe operations, reliable equipment and robust supply chains.

So Carl Stahl supports the ADIPEC 2026 theme, "Where Energy Opportunity Takes Shape", through engineered lifting solutions that help keep critical energy operations running safely and efficiently. Three regional facilities, spanning more than 11,665 m², provide extensive lifting equipment production and testing capabilities.

Equipment includes hydraulic presses up to 2,000 tonnes, test benches up to 500 tonnes, tensile and compression test rigs, certified test weights, and water bags. Local manufacturing, testing and inspection help reduce turnaround times, support equipment availability and minimise operational downtime, says the company.

Assured quality

Carl Stahl's quality credentials include DNV Type Approval for wire rope sling manufacturing and ISO 9001, ISO 14001 and ISO 45001 certifications.

ISO/IEC 17020, 17024 and 17025 accreditations are held by the relevant entities within their approved scopes. Regional credentials also include vendor approvals for relevant products and services with ADNOC and Saudi Aramco, alongside full LEEA membership. The firm says its regional capabilities are strengthened through partnerships with international manufacturers and brands including WireCo, Union, CASAR, Glestein GmbH, Kito, Crosby, RUD, Straightpoint, SCHILLING, SpanSet, HADEF and PFEIFER Structures GmbH.

The product range includes steel wire ropes, high-capacity webbing slings, manual hoists and digital load-monitoring technologies for demanding offshore and onshore applications.

By combining German engineering heritage with manufacturing and inspection services in the Middle East, Carl Stahl says it helps customers maintain safe lifting operations and reliable energy infrastructure.

And its UAE and KSA operations, supported by international partners, bring technical expertise and responsive support closer to regional energy projects.



EXHIBITOR | CHINA CLASSIFICATION SOCIETY (CCS)

HALL: 15 | STAND: 15276

Strengthening bankability of critical assets

China Classification Society (CCS) is employing digital inspection as it continues to help the industry safeguard shipping, offshore and energy sector assets

China Classification Society (CCS) believes that robust technical standards, independent third-party assurance and lifecycle risk management are essential to safeguarding critical energy infrastructure and enabling sustainable cross-border cooperation.

As global energy demand continues to rise, the energy transition accelerates, and geopolitical uncertainty increases, it says the industry must strike a new balance between supply capacity, decarbonisation, resilience and long-term energy security.

CCS has long supported the shipping, offshore and energy sectors through classification, inspection and certification, risk assessment, asset integrity management, and green and low-carbon technical services.

These capabilities support LNG and oil and gas transportation, offshore oil and gas development, offshore renewables and other energy-related projects.

By providing technical assessment and verification throughout design, construction, installation and operation, CCS helps asset owners, investors and operators reduce technical and operational risks, enhance safety and reliability, and improve the bankability of critical assets. It says internationally recognised standards and assurance frameworks also help strengthen cooperation across countries, companies and supply chains.

CCS notes that AI is improving forecasting, monitoring and operational efficiency across the energy sector, while data centres and AI infrastructure are themselves creating significant new power demand.

"CCS is advancing digital inspection, intelligent monitoring, condition assessment, digital twins and data-driven risk analysis, supporting the transition from conventional periodic inspection towards more intelligent and predictive safety management for ships, offshore platforms and energy facilities," says the company.

It also supports the resilience of critical infrastructure, including offshore oil and gas platforms, LNG transportation and storage, offshore wind, offshore solar, marine renewable energy and associated transportation systems, through technical rules, design review, certification and inspection.

Looking ahead, CCS explains that it will continue to develop solutions in green shipping and alternative fuels, LNG and new-energy transportation, offshore engineering safety, digital and intelligent inspection, and asset integrity management.

"We look forward to strengthening cooperation with global energy companies, shipowners, engineering contractors and technology providers to build a safer, lower-carbon, more efficient and more resilient global energy system," it adds.



EXHIBITOR | DUPONT SPECIALTY ELECTRONIC MATERIAL

HALL: 7 | STAND: 7322

Focus on advanced materials and reliability engineering where it matters the most

DuPont's MOLYKOTE® and Vespel® technologies help operators improve equipment reliability, reduce maintenance, and extend asset performance across the value chain amid global energy growth



As global energy demand continues to grow, operators must deliver reliable, secure, and efficient energy while strengthening the resilience of the infrastructure that powers economies and industries. Across production, transportation, refining, and processing, maximising asset performance and minimising operational risk have become business-critical priorities.

Meeting these objectives requires a greater focus on equipment reliability and asset protection across the energy value chain. Unplanned downtime in critical equipment such as valves, compressors, pumps, flanges, and downhole systems can disrupt production, increase maintenance costs, and impact supply chain continuity. To address these challenges, MOLYKOTE® specialty

lubricants from DuPont provide Smart Lubrication™ solutions specifically developed for upstream, midstream, and downstream operations. Combining tribology expertise with materials science, MOLYKOTE® technologies help withstand corrosive chemicals, water exposure, extreme temperatures, high loads, and other challenging operating conditions commonly encountered in oil and gas applications. By reducing wear, friction, and corrosion while extending service intervals, MOLYKOTE® solutions help improve equipment uptime, lower maintenance requirements, and support safer, more efficient energy operations.

As the energy sector expands to support growing electrification, digitalisation, and AI-driven industries, improving the performance of existing infrastructure is becoming just as important as adding new capacity. Technologies that enhance

reliability, reduce energy losses, and extend equipment life allow operators to extract greater value from existing assets while helping meet rising energy demand more sustainably.

Meeting these objectives requires a greater focus on equipment reliability and asset protection across the energy value chain.

Achieving these gains depends on the performance of infrastructure such as pipelines, offshore platforms, pumping systems, storage facilities, and processing plants, where equipment reliability directly affects operational continuity and energy security. DuPont™ Vespel® CR-6100 was developed to enhance the performance of centrifugal pumps by minimising the risk of galling and seizure, enabling tighter operating clearances, reducing vibration, improving efficiency, and extending mean time between repairs. These characteristics help improve pump reliability, reduce maintenance interventions, and support safer operation of critical energy assets.

As the industry gathers at ADIPEC 2026, DuPont innovations such as MOLYKOTE® Specialty Lubricants and Vespel® Parts & Shapes will continue to demonstrate how advanced materials and reliability-focused engineering can help strengthen critical infrastructure and support a more secure, resilient, and sustainable energy future.

EXHIBITOR | CETCO ENERGY SERVICES

HALL: 2 | STAND: 2430

Smarter fluid management for energy sector

CETCO Energy Services leverage advanced water treatment, filtration and engineered process technologies to enhance asset performance, minimise downtime and strengthen operational reliability

As global energy demand continues to rise, the industry must balance reliable supply with operational resilience, environmental stewardship, and infrastructure performance.

CETCO Energy Services supports this objective by helping operators manage complex fluid challenges across offshore and onshore operations. Through advanced water treatment, filtration, well testing, fluid chemistry, and engineered process solutions, CETCO enables safer, more efficient energy production while helping customers reduce risk, manage operating costs, and extend asset life.

Energy resilience depends on secure, dependable operations and supply chains. CETCO Energy Services de-risks projects by providing field-proven technologies, experienced operational support, and scalable treatment solutions that can be rapidly deployed across global markets.

Our global footprint and project execution capabilities support the operational efficiency required to meet growing energy demand. By improving produced water management, filtration performance, and process reliability, we help operators maximise existing infrastructure and reduce unnecessary downtime.

CETCO patented technologies play a critical role across offshore platforms, production facilities, and pipeline systems. Our portfolio includes advanced produced water treatment, solids management, filtration, well testing, and custom-engineered equipment designed to improve system reliability and performance. These solutions help protect critical infrastructure, enhance flow assurance, support regulatory compliance, and improve operational uptime.

At ADIPEC 2026, CETCO Energy Services will showcase its integrated portfolio of water treatment, filtration, well-testing, and production-optimisation technologies. We are particularly excited to highlight solutions that help operators improve efficiency, reduce environmental impact, and maximise value from existing assets. By combining technical expertise, innovative technologies, and global operational experience, CETCO Energy Services is helping shape a more resilient energy future.



EXHIBITOR | CLAMPON

HALL: 9 | STAND: 9133

Early detection with proactive asset monitoring

ClampOn's wireless monitoring technology gives operators real-time insight into critical processes, helping prevent failures, reduce downtime and optimise asset performance

As the global energy sector faces rising demand, evolving supply chains, and increasing pressure to improve efficiency and reduce emissions, energy resilience has become a strategic priority for operators across refining and petrochemical industries. The ability to maintain reliable operations, prevent unplanned downtime, and optimise asset performance is no longer just an operational goal. It is critical to ensuring long-term energy security.

One of the most effective ways to strengthen resilience is through continuous condition monitoring and early detection of issues before they escalate into costly failures. By providing operators with real-time insight into asset and process performance, advanced monitoring technologies help reduce operational risk, improve efficiency, and support more informed decision-making.

ClampOn's Wireless BIRD platform has been developed with these challenges in mind. Designed for rapid deployment and continuous monitoring, the platform delivers actionable insights from critical process points without the complexity of traditional wired systems.

For refineries and petrochemical facilities, the BIRD portfolio addresses several key operational challenges. The BIRD Particle Monitor enables early detection of solids and process upsets that may lead to erosion, equipment damage, or reduced process efficiency. The BIRD Leak Monitor helps identify leaking valves, allowing operators to reduce product loss, improve process integrity, and minimise unnecessary energy consumption. The BIRD Steam Monitor supports steam system optimisation by providing visibility into steam conditions and losses, helping facilities improve energy efficiency and reduce operating costs. Meanwhile, the BIRD Pig Detector provides reliable pig

tracking and confirmation in pipeline operations, improving operational control and reducing uncertainty during critical pipeline activities.

Together, these solutions help operators move from reactive maintenance to proactive asset management. By identifying problems earlier, facilities can reduce downtime, extend equipment life, improve safety, and make better use of available resources.

At ADIPEC 2026, ClampOn looks forward to showcasing its wireless monitoring technology that can support a more resilient energy future. As the industry continues to focus on efficiency, reliability, and sustainability, real-time monitoring and data-driven insights will play an increasingly important role in strengthening critical infrastructure and ensuring secure energy production for the years ahead.



EXHIBITOR | EMDAD

HALL: 2 & 3 | STAND: 2430 & 3130

Harnessing industry-shaping innovations and expertise that can boost profit and sustainability

Emdad highlights how and why it has been a trusted partner to the region's energy industry for the past five decades and continues to offer its locally-developed solutions to drive the ongoing transformation



Looking ahead, we believe renewable geothermal energy to power data centres, hydrogen value chains, and AI-enabled asset management will have the most transformative impact over the next decade.

By bridging expertise between energy, technology, and finance, we can accelerate scalable, commercially viable solutions that deliver both profitability and sustainability.

As the global energy landscape undergoes an unprecedented transformation the future is being shaped by those who combine operational excellence with sustainable innovation.

For nearly five decades, Emdad has been a trusted partner to the region's energy industry, supporting upstream and downstream operations with integrated services and solutions. Now, as part of the NMDC Group, we are leveraging this heritage with forward-looking investments in advanced technologies, automation, and low-carbon operations, ensuring that our clients remain competitive in a fast evolving market. A standout innovation from Emdad includes our UAE-manufactured high-pressure hoses, engineered solar-powered solutions for

cathodic protection (CP) operations, and our proprietary Hydraulic Whipstock design, all fully compliant with API standards to ensure the highest levels of safety, reliability, and operational excellence.

These locally-developed solutions significantly reduce carbon emissions, lead times, and costs while enhancing overall performance and in-country value (ICV).

Another key area of innovation is our Oil-Based Mud (OBM) cuttings and sludge treatment solution, which utilises the thermal desorption method to minimise net waste and recover reusable fluids. By applying indirect heat, the process removes up to 99.9% of hydrocarbon content, delivering both cost efficiency and environmental sustainability.

At ADIPEC 2026, we are excited to showcase our latest initiatives in energy efficiency, data-driven maintenance, and carbon management, alongside strategic partnerships that bring cutting-edge global innovations to the UAE. We also look forward to engaging with peers and clients to explore how emerging technologies can unlock measurable progress toward net-zero ambitions.

Ultimately, the energy transition requires more than technology - it demands collaboration across sectors. By bridging expertise between energy, technology, and finance, we can accelerate scalable, commercially viable solutions that deliver both profitability and sustainability.

Through this integrated approach, Emdad continues to play its part in shaping a smarter, cleaner, and more resilient energy, transforming collective vision into impactful energy transformation.

EXHIBITOR | CSE SOLUTIONS PVT LTD HALL: 13 | STAND: 13265

Where engineering meets energy resilience

CSE solutions offer electrical, automation, instrumentation and safety expertise to deliver infrastructure for increasingly complex energy operations

As global energy demand continues to rise, resilience is increasingly about more than adding capacity. Critical energy infrastructure must operate safely, reliably and continuously while adapting to evolving technologies, supply chain challenges and increasingly complex operating environments.

At CSE Solutions, electrical, instrumentation, automation and safety systems form a fundamental layer of this resilience. With nearly three decades of experience and a 60,000 sq ft engineering and manufacturing facility in Ahmedabad, India, CSE provides integrated solutions spanning PLC and DCS-based automation, Safety Instrumented Systems, MCCs and electrical panels, process control panels, and systems for hazardous-area applications. Bringing engineering, manufacturing, automation and testing capabilities together helps reduce project interfaces, improve accountability and deliver systems engineered for dependable operation.

Resilience also requires infrastructure designed around recognised global standards. CSE engineers solutions aligned with IEC and UL requirements and supports applications in ATEX/IECEx hazardous environments. As a Rockwell Automation Gold System Integrator, we deliver advanced control architectures, including PlantPAx-based solutions, for demanding process applications.

Digitalisation and AI are creating significant opportunities for the energy industry – from predictive insights and intelligent diagnostics to improved operational decision-making. However, these capabilities ultimately depend on reliable electrical infrastructure, secure control architectures and trustworthy operational data. Resilient energy systems of the future will increasingly integrate automation, cybersecurity and intelligent technologies while keeping safety, availability and maintainability at their core.

At ADIPEC 2026, CSE looks forward to connecting with energy companies, EPCs, OEMs and technology partners seeking dependable engineering and system-integration capabilities for critical projects worldwide.

For CSE, “Where Energy Opportunity Takes Shape” means bringing technology, engineering and manufacturing together to create infrastructure that performs reliably in the real world.



EXHIBITOR | C-TORQ MARINE SERVICES HALL: 16 | STAND: 16077

A new current in hybrid marine propulsion

C-TORQ Marine Services is using hybrid propulsion, energy storage and intelligent power management to improve efficiency and resilience across marine and offshore operations

As global energy demand grows, driven by AI, digital infrastructure, and industrial electrification, efficient and resilient power systems are becoming increasingly important.

C-TORQ Marine Services, an authorised Danfoss integrator and marine electrical system integrator, delivers advanced solutions including VSD drive panels, shaft-generator/PTI systems, hybrid propulsion, energy storage, power management, and shore power converters for marine, offshore, and industrial applications. Its solutions are designed to improve energy efficiency, reduce emissions, and minimise carbon footprint, supporting a cleaner and more sustainable future.

The company's proven projects demonstrate the value of engineered electrification. The First UAE Hybrid Vessel TRISTAR ECO VOYAGER serial-hybrid newbuild integrates electric propulsion from the design stage, while an ARAMCO peak-shaving retrofit uses energy storage to reduce generator running hours, optimise generator loading, and minimise standby generation requirements.

C-TORQ has also delivered eleven 500 kVA grid converter systems, providing greater flexibility and control in power distribution to the dry dock facility in the UAE. The company's approach focuses on using existing power more efficiently through optimised drive systems, battery energy storage, and intelligent power management.

At ADIPEC 2026, C-TORQ will showcase its proven solutions in hybrid propulsion, energy storage, peak shaving, and grid power conversion, demonstrating how electrification can improve efficiency, reduce emissions, and strengthen energy resilience.



EXHIBITOR | ENDRESS+HAUSER

HALL: 12 | STAND: 12815

Technology and trusted data that support operational continuity as well as energy transition

Ahmad Hussein, Industry Manager Oil and Gas at **Endress+Hauser**, discusses solutions from the company that bolster energy resilience across gas, LNG, hydrogen, CCUS, emissions monitoring and digital asset management



The industry faces a critical challenge as global energy demand grows - delivering reliable, affordable energy while advancing sustainability and strengthening long-term resilience.

Success depends on optimising existing assets, securing supply chains, embracing digitalisation, and accelerating low-carbon energy systems. We believe resilient energy infrastructure begins with trusted measurement data. Accurate and reliable instrumentation helps operators run facilities safely, improve efficiency, reduce emissions, and make informed decisions across the energy value chain.

From upstream production and gas processing to LNG, hydrogen, carbon capture and storage (CCUS), and power generation, our technologies support operational continuity while supporting the energy transition. Coriolis flowmeters,

thermal flowmeters, clamp-on ultrasonic flowmeters, radar level transmitters, and advanced ultrasonic measurement solutions provide the accuracy and reliability, required for critical applications, including LNG custody transfer, natural gas metering, fiscal measurement, energy trading, and regulatory compliance.

As investment in new energy infrastructure increases, reducing operational and project risk becomes even more critical. In flare gas applications, advanced ultrasonic flare gas measurement solutions deliver accurate measurement across wide flow ranges, helping operators improve flare management, optimise gas recovery, enhance emissions reporting, and support compliance while maintaining safe operations. We support customers with comprehensive measurement solutions, digital services, and lifecycle expertise that improve asset visibility, simplify compliance, and strengthen

reliability. Our Netilion ecosystem provides real-time insights, diagnostics, and asset performance information, helping operators anticipate challenges.

AI is creating new opportunities for optimisation and productivity while driving significant power demand through rapid data centre growth. Endress+Hauser supports efficient liquid cooling systems with precise flow, temperature, pressure, and analytical measurements that improve reliability, cooling efficiency, and energy utilisation. Our solutions for continuous emissions monitoring, greenhouse gas measurement, particulate monitoring, combustion optimisation, and environmental compliance, help operators meet regulations, and achieve decarbonisation goals. At ADIPEC 2026, we are excited to showcase solutions that strengthen energy resilience across gas, LNG, hydrogen, CCUS, emissions monitoring, and digital asset management.

“AI is creating new opportunities for optimisation and productivity while driving significant power demand through rapid data centre growth.”

By combining trusted measurement technologies with connected digital services, we enable operators to improve efficiency, enhance safety, reduce emissions, and build the resilient infrastructure required for a secure energy future.

EXHIBITOR | DAYIM HALL: 13 | STAND: 13013

Rethinking equipment ownership in the GCC

Dayim explains how its huge GCC-based rental fleet enables companies to be nimble and de-risk equipment investment to free-up purchase capital for elsewhere

Owning equipment has for a generation signalled security, says Dayim.

But in a decade defined by volatile supply chains, extended lead times and demand that shifts faster than capital can be deployed, ownership increasingly concentrates risk rather than removing it. The wrong asset in the wrong country at the wrong moment isn't resilience, it is stranded capital.

Balancing rising energy demand against the imperative for security requires a different measure of capacity: not what an organisation owns, but what it can mobilise. Dayim operates one of the GCC's largest equipment rental fleets, with about 12,000 units across KSA, UAE, Qatar, Kuwait and Bahrain, spanning power generation, material handling, access, and specialist transport.

It is pre-positioned, maintained, able to move across borders - when a turnaround window shifts forward, a commissioning date slips, or unplanned demand hits a terminal.

This de-risks investment in three practical ways.

It converts capital commitment into an operating one, so a delayed decision costs nothing in idle iron; it removes single-country exposure as a shortage in one market is met from another; and it transfers maintenance, certification, and compliance risk to a specialist, keeping assets audit-ready. The argument is strongest at the edges of critical infrastructure, such as a gas plant shutdown, power bridging a data centre between practical completion and grid energisation, or a pipeline crossing that needs lifting capacity for six weeks only.

A clear test came this year when parts of the region faced disruption. Dayim mobilised power generation units to support emergency response, delivering

electricity where it was needed most, at short notice and under pressure. Capacity that can move like that is not a line in a proposal, it is the difference between an operation that keeps running and one that stops. Efficiency belongs in the same argument. We size to measured load rather than nameplate, use telematics to eliminate low-load running, and are transitioning our fleet to Stage V emissions standards. Shared, well-utilised assets are also lower-carbon assets.

At ADIPEC, we look forward to exploring where flexible fleet capacity fits within the region's energy and AI infrastructure build-out.



EXHIBITOR | DET-TRONICS HALL: 8 | STAND: 8152

Continuing with the heritage of innovation

Det-Tronics combines more than 50 years of flame and gas detection expertise with continued investment in innovation and emerging mission-critical applications

From a garage-based start-up to a leading global provider of fire and gas detection technologies, Det-Tronics has spent more than 50 years protecting people, assets and critical infrastructure. Today, four strategic pillars — operational excellence, innovation, growth with customer focus, and people and culture — are shaping its next chapter.

Det-Tronics began more than five decades ago with a clear ambition to detect hazardous events quickly and reliably, helping prevent incidents from becoming catastrophic. From its humble beginnings, the company has built a strong legacy in flame and gas detection, serving some of the world's most demanding industrial environments.

While oil and gas remains a critical market, Det-Tronics' reach now extends across a growing range of mission-critical applications including Clean Energy.

"A lot of people assume that our business is primarily oil and gas. While that sector is certainly critical to us, it represents only one aspect of what we do — approximately half of our business. The other half sits in mission-critical growth areas, including clean energy, industrial and manufacturing facilities, utilities and defence applications.

Anywhere there are fire or gas hazards that need to be detected very quickly, we have a role to play. Increasingly, that includes data centres and energy generation facilities," says Johannes Mario Kahlert, CEO & President, Det-Tronics.

The company has nearly doubled its R&D capacity, strengthening its ability to develop new technologies and respond to evolving customer needs.

The Middle East has remained a key market for Det-Tronics for many years, supported by a strong regional presence and longstanding customer relationships.

As the region continues investing in energy and critical infrastructure, ADIPEC provides an important platform to connect with customers and industry leaders and showcase technologies addressing evolving safety requirements.

More than 50 years after its modest beginnings, Det-Tronics continues to combine heritage, innovation and customer insight to help protect industries and infrastructure around the world.



EXHIBITOR | GASOS

HALL: 4 | STAND: 4420

A company with the right capabilities to protect assets and drive greater service life

Samir Al Gharbi, Managing Director, **GASOS**, explains how his organisation aims to help customers strengthen safety, reliability, asset integrity and operational continuity across an evolving energy value chain



automation, SCADA, instrumentation, metering, turbine controls and solar-generation solutions that strengthen digital and energy-efficiency foundations required for responsible AI adoption. We also provide fencing and perimeter protection systems for data centres.

“Our role is to connect critical energy infrastructure with proven engineering, automation and integrity technologies.”

How can the sector help balance rising global energy demand with the imperative for resilience and long-term security?

The energy sector must pursue a diversified mix, combining reliable conventional supply with renewables, nuclear and other lower-carbon technologies to reduce dependence on any single source and promote sustainability. Just increasing production through conventional means only is not a solution to meet rising demand. Any producing field must be developed first and its geology and geophysics studied to know the limits of allowable increase in production in line with international standards, otherwise it will have an adverse effect on the lifespan of the field and its formation.

How do your services actively de-risk investments, secure vulnerable supply chains, or enable robust cross-border partnerships?

GASOS de-risks energy investments by

connecting local operators with proven global manufacturers and ensuring solutions are aligned with customers' exact technical specifications. Our local engineering, commercial and technical support, bridges international manufacturers with UAE operating requirements, improving coordination and supply continuity. This established agency model enables robust cross-border partnerships while giving customers accountable, locally accessible support throughout the supply cycle.

How is the sector addressing the dual challenge of deploying AI capabilities while managing the power demand it creates?

The energy sector is joining AI deployment with more efficient computing, flexible data-centre loads, grid investment and diversified power sources. AI also helps offset its footprint by optimising assets, predicting failures and improving energy-system efficiency. We support this transition by providing

What specific role does your technology play in expanding, integrating, or fortifying critical infrastructure?

Our role is to connect critical energy infrastructure with proven engineering, automation and integrity technologies. GASOS contributes to infrastructure resilience through pipeline testing and treatment, corrosion and oxidation-resistant services, inspection engineering, NDT, tubular inspection and maintenance of oil and gas facilities. We also provide storage tank rental, provision and maintenance, together with lifting equipment, mechanical systems and instrumentation and control services. These capabilities help protect critical assets, extend service life, improve safety and support reliable operations across onshore and offshore environments. We believe resilient energy systems are built through dependable assets and responsive technical support.

EXHIBITOR | DUNES SPECIALIZED HALL: 16 | STAND: 16630

Meet a trusted engineering solutions partner

Dunes Specialized explains how its solutions reduce down time, improve production, and enable customers to navigate complex requirements while reducing procurement-related uncertainty

Dunes Specialized will be showcasing its various engineering solutions during ADIPEC edition.

These are related to pressure control, small bore instrumentation system, filtration products, cable and pipe transits, ex-rated electrical products, and API drilling fluids.

With more than a decade of experience, we have executed several critical projects in the Middle East. These are mostly with customised solutions based on site conditions and application which boost efficiency, reduce leakages and risks which can, in turn, enhance performance safety and sustainability across energy assets.

Our team motto is “building a resilient energy ecosystem” and we play a pivotal role in energy ecosystems connecting manufacturers to the UAE’s energy system, including oil and gas, power and utilities, and data centres which drive energy projects in the region.

Pressure regulating and controlling plays a vital role in upstream exploration to downstream refining, oil and gas wells, offshore platforms, and pipeline processing.

Rich expertise

At Dunes Specialized we have innovative products related to pressure control, back pressure, and pressure regulation which significantly enhance safety, optimise the lifecycle of energy assets, reduce down time, and improve production.

Cable and pipe sealing on transits and penetrations is very critical in any energy infrastructure, and we offer cutting edge engineering technology with mechanical sealing solutions used in harsh and challenging environment. These protect onshore and offshore assets from fire, gas, water, rodents, explosions and more; for any oil and gas field, filtration challenges need to be addressed efficiently and sustainability.

On our ADIPEC stand, we will have rich expertise in filtration technology wherein we have innovative technologies for the filtration of fuel gas, sand control tubes, FCC catalyst regeneration, water injection filtration skids, carbon filters for hydrocarbon removal, self-cleaning filters, cable glands and connectors essential for electrical continuity in energy system.

We help customers navigate complex requirements while reducing procurement-related uncertainties through our partnership with world class manufacturers, combining resources, technology, sourcing expertise and industry relationships to reduce supply chain uncertainty, support investment protection, and help customers build resilient energy operations.



EXHIBITOR | ENERWHERE SUSTAINABLE ENERGY HALL: CONCOURSE | STAND: CN101

Powering oilfield systems beyond the grid

Enerwhere combines mobile solar, battery storage and diesel generation to deliver reliable, lower-carbon power for remote oil and gas operations

As energy demand rises across the oil and gas industry, reliable power generation and long-term sustainability must advance hand in hand. For remote production sites, where grid infrastructure may be unavailable, temporary power systems must deliver continuous and reliable energy while reducing dependence on fuel-intensive generation. Enerwhere Sustainable Energy is addressing this challenge through mobile solar-diesel-battery hybrid solutions delivered under an energy-as-a-service model. In 2026, Enerwhere deployed and evaluated a containerised hybrid power system for active jet pumps at off-grid well sites in Abu Dhabi, demonstrating how renewable energy can be integrated into critical artificial-lift operations without compromising production continuity.

The solution combined mobile photovoltaic generation, battery storage, diesel generators, hybrid control equipment, fuel monitoring, and remote digital supervision. Across the evaluated deployments, solar supplied approximately 21% of the electricity at operating sites, while maintaining at least 99.9% availability over more than 12 months of continuous operation with no solar-attributable outages recorded.

The project delivered approximately 961 MWh of electricity across three locations through July 31, 2026, with approximately 140 MWh supplied by solar generation and an estimated 63,000 litres of diesel displaced. These results illustrate how hybrid systems can reduce fuel consumption while retaining dispatchable generation for dependable power delivery. Digitalisation further strengthens resilience. Enerwhere’s remote monitoring platform tracks load demand, generator performance, solar production, fuel levels, and system events, enabling data-driven maintenance, fuel planning, and more informed equipment sizing. Its energy-as-a-service model also allows operators to adopt hybrid power without taking on the day-to-day operation and maintenance of the generation source.

Looking ahead, Enerwhere is exploring the integration of battery energy storage and additional solar capacity to increase renewable penetration. The Abu Dhabi jet-pump project demonstrates that mobility, intelligent energy management and reliable backup generation can provide a practical pathway towards lower-carbon, more adaptable, and highly reliable oilfield infrastructure.

At ADIPEC 2026, Enerwhere will showcase solutions that turn energy opportunity into operational resilience, supporting the industry’s transition towards a more secure and sustainable energy future.



EXHIBITOR | GWC ENERGY SERVICES

HALL: 15 | STAND: 15220

Keeping energy moving through disruption requires reliability across operations

With energy companies responding to rising demand and various connected conditions, **GWC Energy Services** presents integrated logistics and marine solutions designed for onshore and offshore operations



This regional reach helps energy companies maintain continuity while supporting stronger cross-border partnerships.

Specialised project and marine capabilities provide further support for oversized and heavy cargo, offshore projects, drilling campaigns, vessel agency and supply-base operations.

GWC Energy Services supports this need through integrated logistics and marine solutions designed for onshore and offshore operations.

Energy resilience depends on whether the equipment, materials, vessels and people behind every operation can move safely and reliably. As energy companies respond to rising demand, complex projects and changing trade conditions, logistics have become a critical part of business continuity.

GWC Energy Services supports this need through integrated logistics and marine solutions designed for onshore and offshore operations. From its strategic supply bases in Ras Laffan and Mesaieed in Qatar, and across major ports, anchorages and shipyards in the UAE, the company provides a single point of coordination for freight forwarding, customs clearance, warehousing, project

cargo, port agency, husbandry, crew changes and last-mile delivery.

This integrated model reduces operational handovers, strengthens shipment visibility and helps critical equipment and materials reach their destination on schedule. Supported by 24/7 operations and strict quality, health and safety standards, GWC Energy manages complex and time-sensitive requirements across the oil and gas value chain.

GWC Group's wider operational presence across Qatar, the UAE, Oman and Saudi Arabia gives customers access to alternative routes, ports and storage locations when congestion, geopolitical disruption or changes to project schedules affect established supply chains.

The scale of these operations includes 1,500 vessel calls, 2,500 crew changes and 1,750 import and export shipments annually.

Efficiency and sustainability reinforce this approach. Shipment consolidation, route optimisation, efficient warehousing and better use of transport and marine assets can reduce empty movements, fuel consumption and emissions while improving operational performance.

At ADIPEC 2026, under the theme, Where Energy Opportunity Takes Shape, GWC Energy will demonstrate how integrated logistics can turn resilience planning into practical operational capability, helping the energy sector keep essential supply chains moving through disruption and change.

EXHIBITOR | ENSIGN DRILLING INC | HALL: 3 | STAND: 3252

Drilling towards a more secure energy future

Ensign Energy Services combines operational discipline, technology and responsible resource development to help strengthen energy security and meet growing global demand

At Ensign Energy Services, we believe reliable, stable, and affordable energy is essential to sustaining a high quality of life, enabling economic progress, and creating opportunities for communities around the world. Energy security is not an abstract goal, it is the foundation that powers hospitals, schools, transportation networks, businesses, homes, and critical infrastructure that our communities depend on every day. As populations grow and economies develop, evolve, and diversify, access to dependable energy remains a key driver of human progress, poverty reduction, and long-term prosperity.

Ensign's role is to support the responsible development of the resources needed to meet growing global energy demand. Through safe, consistent drilling performance, reduced operational variability, and more efficient operations, we help strengthen project certainty, long-term energy security, and the responsible supply of the energy the world depends on. At Ensign, we believe that resilient energy systems are built on innovation, discipline, adaptability, and respect for the regulatory frameworks that govern resource development. Reliable and affordable energy is secure energy, and delivering it responsibly is central to our purpose.

As a global service provider, Ensign operates with a commitment to operational excellence and an uncompromising commitment to the safety of our people and those around us. We conduct our work in a manner that protects our employees, customers, contractors, and the communities in which we operate. We also recognise that responsible energy development requires disciplined operating practices, continuous improvement, and respect for the places where we work. Through innovation and investment in technologies that improve efficiency, predictability, and performance, we work to reduce risk, improve productivity, and strengthen operational performance.

Energy is essential to human flourishing. It powers opportunity, supports economic progress, and helps maintain a higher standard of living around the world. As global energy needs continue to evolve, the responsibility of our industry is clear: to deliver the energy people need safely, reliably, affordably, and responsibly.

Through innovation, improved efficiency, protecting our people, respecting the environments where we operate, and supporting access to dependable energy, Ensign Energy Services plays an important role in helping power a more secure, prosperous, and sustainable future for generations to come.



EXHIBITOR | ENVENTURE GLOBAL TECHNOLOGY | HALL: 16 | STAND: 16325

Resilience demands a different way of thinking

Enventure Global Technology is advancing expandable liner hanger technology to extend asset life, strengthen well integrity, and rethink how the wells of tomorrow are built

The energy industry does not become more resilient by doing what it has always done.

Rising energy demand, increasingly complex wells and pressure on critical infrastructure require operators to move faster, manage risk differently, and extract greater value from the assets already in place. At Enventure Global Technology, we believe resilience starts by challenging convention.

For more than 25 years, Enventure Global Technology has done exactly that.

We pioneered expandable technology to solve problems that conventional approaches could not. Today, we continue to push that technology forward, from restoring well integrity and extending the productive life of existing assets to rethinking how wells can be constructed and completed.

Our culture drives that progress. We listen. We care. We dare.

We listen to the problem before proposing the solution. We care about execution and the outcome in the field. And we dare to challenge accepted thinking when there is a safer, simpler or stronger way forward.

That mindset is embodied in EN-Force™, Enventure's next-generation Expandable Liner Hanger. Built around the principles of Safe. Simple. Strong., EN-Force combines slim architecture with expandable technology to help operators protect internal diameter, reduce complexity and rethink conventional liner-hanger design.

But resilience is bigger than any single technology.

Every well restored rather than abandoned, every asset whose productive life is extended, and every operation in which complexity and risk can be reduced strengthens the infrastructure supporting global energy security. Making existing assets work harder and last longer while developing better ways to construct the wells of tomorrow is how resilience moves from ambition to action.

At ADIPEC 2026, Enventure is bringing that philosophy to the industry under a simple idea: First to Future.

We have spent decades proving what expandable technology can do. Now we are focused on what it can do next.

Because where energy opportunity takes shape, the future belongs to companies willing to shape it.



EXHIBITOR | HALLIBURTON

HALL: 5 | STAND: 5250

How the economics of ‘unconventionals’ now depend on automation for better results

Rami Yassine, President, Eastern Hemisphere, **Halliburton** explains how workflow automation and real-time optimisation can secure the essential best results from unconventional resource operations



The unconventional revolution transformed the global energy landscape. Over the past two decades, operators unlocked vast hydrocarbon resources that once appeared uneconomic. They reshaped global supply, expanded reserves, and strengthened energy security.

Today, unconventional development enters a new phase. Operators must develop hydrocarbons at lower cost, respond to reservoir behaviour as it changes, and generate stronger returns across entire asset portfolios. Automation helps operators adjust treatment execution in real time, rather than apply a uniform plan across formations that rarely behave uniformly.

As unconventional activity expands in regions such as Australia, the Middle East, and South America, operators require a way to adapt hundreds or thousands of wells to live reservoir response. Automation provides that capability. It helps teams evaluate treatment data, adjust execution, and maximise stimulation effectiveness for

large development programmes. The next chapter of the unconventional revolution will focus less on resource access and more on real-time asset optimisation.

“The companies that succeed will not just drill more wells, they will use closed-loop automation to adjust in real time, improve stimulation effectiveness, and create stronger economics for their assets.”

Many companies automate individual tasks, but few connect the entire workflow. Subsurface teams generate data that influences well placement, which affects drilling performance. In turn, drilling performance shapes completion effectiveness, which then influences production results. Each discipline builds

on the previous one. When operators connect these workflows through digital technologies, automation, and advanced analytics, they create faster feedback loops and make better decisions. At Halliburton, we see this integration as essential to maximising asset value. Teams can identify opportunities sooner, respond to changing conditions faster, and improve performance across the asset lifecycle.

Geology does not deliver uniform reservoirs, so operators should not execute uniform stimulation and expect uniform coverage. Closed-loop frac automation evaluates live treatment data and adjusts the job in real time based on reservoir response. That capability helps operators place energy, fluid, and proppant where the reservoir needs them most to maximise stimulation effectiveness. The unconventional revolution changed the industry's resource base. Now, automation will change its economics. As operators expand unconventional development around the world, they must lower costs, adapt to reservoir variability, and maximise capital efficiency.

The companies that succeed will not just drill more wells, they will use closed-loop automation to adjust in real time, improve stimulation effectiveness, and create stronger economics for their assets. Automation strengthens energy resilience by helping operators adapt to changing conditions, maintain consistent execution, and maximise the value of available resources. Resilient operations depend on the ability to respond quickly, efficiently, and effectively. In today's increasingly dynamic energy environment, unconventional automation is no longer a technology trial, it is an economic necessity.

EXHIBITOR | EUROBLAST MIDDLE EAST

HALL: 15 | STAND: 15360

Protecting the surface for extended asset life

Euroblast Middle East offers advanced surface-preparation systems, robotics, and automated lubrication to improve safety, efficiency and long-term performance of energy infrastructure

As global energy demand continues to rise, the energy sector must balance increased production with the long-term security, reliability and sustainability of critical infrastructure. At Euroblast Middle East, the company believes resilient infrastructure begins with reliable equipment, effective maintenance and technologies that reduce operational risks across the asset lifecycle.

Surface preparation is a critical component of energy infrastructure integrity. From offshore platforms and storage tanks to pipelines, refineries, and industrial facilities, effective surface preparation supports corrosion protection, high-quality coatings and extended asset life. Euroblast Middle East provides comprehensive surface-preparation solutions, including abrasive blasting systems, blast rooms, paint booths and coating application equipment, helping customers improve productivity, quality, safety and environmental control.

The company's expertise in blast rooms and paint booths enables customers to establish controlled environments for surface preparation and coating operations. These systems help achieve consistent surface quality, improve coating performance, control dust and overspray, and support increasingly demanding workplace safety and environmental requirements. By providing integrated solutions, Euroblast helps customers optimise processes, reduce rework and minimise operational downtime.

It is also advancing the adoption of robotic solutions for surface preparation. Robotics can improve safety, productivity and consistency when working on large, hazardous or difficult-to-access assets. By reducing direct human exposure to challenging environments while delivering controlled and repeatable surface treatment, robotic technology offers significant potential for offshore structures, storage tanks, pipelines and other critical infrastructure.

In addition, Euroblast provides automatic lubrication systems that support the reliable operation of critical mechanical equipment. Automated lubrication delivers the right quantity of lubricant at the right intervals, helping reduce equipment wear, maintenance requirements and unplanned downtime while extending machinery service life.

Through engineering expertise, advanced technologies and international partnerships, Euroblast Middle East aims to help energy and industrial customers build safer, more efficient and resilient infrastructure while extending the life and performance of critical assets.



EXHIBITOR | FORUM ENERGY TECHNOLOGIES

HALL: 7 | STAND: 7330

Engineering resilience across the well lifecycle

Forum Energy Technologies delivers technologies that improve operational reliability, maximise recovery, and extend asset life

As global energy demand continues to rise, maintaining a resilient energy supply requires more than expanding capacity. It requires technologies that improve operational efficiency, maximise production from existing assets, and help operators maintain reliable performance throughout the lifecycle of a well.

At Forum Energy Technologies (FET), we support energy resilience by helping operators drill, complete, and produce wells more effectively while reducing operational risk and maximising asset value. Across our drilling, downhole, and production technologies, our focus is on delivering solutions that improve reliability, enhance efficiency, and extend the productive life of energy assets.

Reliable well construction lays the foundation for long-term energy security. FET's drilling technologies, including automated pipe handling systems, iron roughnecks, and elevators, help operators improve safety, reduce non-productive time, and achieve more consistent operational performance. By increasing efficiency during critical drilling activities, operators can bring resources online more predictably and cost effectively.

As wells move into production, resilience depends on maintaining output and maximising recovery. FET's downhole and artificial lift solutions help operators optimise production in both mature and newly developed assets. From sand control and completion technologies to production-enhancement solutions designed to improve well performance, FET helps customers increase operational reliability while extending field life and maximising return on investment.

The energy industry also faces growing pressure to do more with existing infrastructure. Technologies that improve recovery rates, reduce intervention requirements, and extend equipment life can have a significant impact on long-term production reliability. FET continues to invest in practical solutions that help

operators improve efficiency, reduce downtime, and make better use of existing resources.

As the industry works to meet growing energy demand while navigating evolving market conditions, resilience will remain a critical priority. FET is proud to provide technologies that support reliable well construction, optimised production, and long-term asset performance.

We look forward to showcasing these solutions at ADIPEC 2026 and discussing how innovation in drilling, completions, and production can help shape a more resilient energy future.



EXHIBITOR | HYTORC MENA

HALL: 7 | STAND: 7255

Safeguarding the return on your investments with an assured and swift return to service

HYTORC MENA explains how it combines controlled bolting, digital traceability, and safer tooling to help critical energy infrastructure return to service sooner following inspection, expansion, or unscheduled disruption



Energy resilience across the Middle East is no longer measured only in new capacity. It is also measured by how quickly critical infrastructure can return to service after inspection, expansion, or unplanned disruption.

For HYTORC MENA, that is where our work sits: keeping the bolted joints inside grids, storage terminals, offshore platforms, and pipelines under control, whatever the operating pressure.

As the UAE moves towards 47 million

tonnes of annual LNG capacity, and neighbouring markets expand gas and power infrastructure at pace, maintenance speed has become a strategic asset in its own right.

HYTORC supported an LNG operator whose turnaround windows were being compressed not by crew capability, but by how bolting itself was managed across a high flange-count facility.

Introducing controlled, documented tightening cut turnaround time by up to 50%, without compromising the flange integrity on which a safe restart depends.

That outcome reflects a wider shift in how resilient infrastructure is built and maintained: the constraint is rarely capacity alone, it is also the reliability of the thousands of individual

connections holding that capacity together.

Three technologies sit behind that shift for us. The LITHIUM SERIES II, a cordless 36V electric torque tool delivering up to 10,845 Nm, removes the hydraulic hoses and pump dependency that can slow technicians moving between flanges on congested platforms and terminals.

Paired with the HYTORC Connect App, every tightening event is captured and logged automatically, giving operators

an auditable record rather than a verbal assurance that a joint was torqued to specification.

The TRUE-LOCK Reaction Washer removes the external reaction arm entirely, eliminating a recognised pinch-point hazard from the process and speeding up setup on high bolt-count work.

None of this replaces investment in new infrastructure. It protects the return on it, by making sure the connections inside that infrastructure hold, are documented, and can be restored to service quickly when something changes.

At ADIPEC 2026, our team will be on Stand 7255 demonstrating this equipment on live flange setups alongside the digital documentation increasingly expected across critical infrastructure projects.

None of this replaces investment in new infrastructure. It protects the return on it, by making sure the connections inside that infrastructure hold, are documented, and can be restored to service quickly when something changes.

EXHIBITOR | GKT HALL: 12 | STAND: 12850

The path from waste heat to process energy

With ADIPEC in its sights, Austrian company **GKT** discusses the many merits of utilising industrial waste heat in a push to make better use of already available energy amid rising power demand management

Rising global energy demand is putting industrial energy systems under increasing pressure. At the same time, resilience requires more than adding new generation capacity - it also means making better use of available energy.

Industrial waste heat is one such resource. Recovering and reintegrating it can reduce primary energy demand, lower dependence on fossil fuels, and strengthen industrial energy supply. GKT's waste heat recovery technologies address this potential. ComprivAP - an industrial heat pump system based on mechanical vapour recompression (MVR) - upgrades large liquid or gaseous waste heat streams into process steam. Electrically driven compressors raise the pressure and temperature of vapour, allowing it to be reused directly in production.

While ComprivAP unlocks large single-source waste heat streams, VarioVAP consolidates multiple, even smaller, waste heat sources. Both technologies can be integrated into existing plants, improving energy efficiency while using established production infrastructure.

Real world example

At BASF's Ludwigshafen site, Germany (pictured), ComprivAP is being implemented on an exceptional scale. As EPC partner, GKT is delivering one of the world's most powerful industrial largescale heat pump systems. Using renewable electricity, the ComprivAP system will convert previously unused waste heat from a steam cracker into CO₂-free process steam. With a thermal capacity of up to 50 MW, it is designed to generate up to 500,000 metric tons of steam per year and reduce CO₂ emissions by up to 100,000 metric tons annually. Commissioning is scheduled for 2027.

Proven energy source

For GKT, de-risking starts well before installation. Available waste heat is evaluated, followed by pre-engineering, application-specific process design, fact-based CAPEX and OPEX assessment, and finally engineering, procurement, construction, and system integration.

For ADIPEC 2026, GKT is highlighting how recovering industrial waste heat can reduce primary energy demand, and strengthen the reliability of industrial energy supply.

The principle is simple: resilience is not only about securing more energy, it is also about wasting less of what is already available.



EXHIBITOR | GLOBAL RESOURCES GROUP HALL: 15 | STAND: 15024

Helping to reduce procurement risks

Global Resources combines technical expertise with an extensive international sourcing and logistics network to provide project-specific solutions tailored to demanding offshore and marine environments

Global Resources Group is a UAE-based supply and engineering services company supporting the specialised requirements of the marine, offshore, oil and gas and industrial sectors. With an established presence across the UAE and an international network spanning the UK, India, Malaysia and Africa, it connects leading global manufacturers with the demanding requirements of complex industrial and energy projects.

Our expertise covers a comprehensive range of marine accommodation solutions, architectural and interior products, HVAC systems, technical hardware and offshore equipment. With a strong focus on quality, compliance, reliability and timely delivery, we work closely with operators, shipyards, EPC contractors and project partners to support efficient project execution. Our solutions are selected and supplied in accordance with applicable international maritime and industry standards, helping customers maintain operational continuity while meeting project schedules and budget requirements. Through global partnerships and market knowledge, we continue to strengthen our role as a trusted supply and engineering partner for the evolving energy and marine industries. As the sector moves toward greater resilience, efficiency and technological advancement, we remain committed to delivering dependable solutions that support the infrastructure, people and operations behind the global energy value chain. So how do our services actively de-risk investments, secure vulnerable supply chains, or enable robust cross-border energy partnerships?

Our approach is focused on reliability, responsiveness and supply continuity. Offshore projects involve significant logistical challenges, and delays in accommodation, equipment or supporting infrastructure can directly affect project schedules and costs. We work with clients, contractors and suppliers across the region to provide responsive procurement, supply and marine accommodation solutions.

By understanding project requirements and coordinating with international suppliers and partners, we help reduce procurement risks and support smoother project execution across borders. At ADIPEC 2026, we are particularly interested in showcasing and exploring advanced marine accommodation solutions, offshore living facilities, modular accommodation concepts and products designed for demanding offshore environments.

We see significant opportunities to improve offshore operations through solutions that are rapidly deployable, durable, cost-effective and adaptable to different project requirements. ADIPEC also provides an excellent platform to develop partnerships with operators, EPC contractors, shipyards and international suppliers.

Our objective is to contribute to a more resilient offshore energy sector by helping clients reduce operational disruptions, improve workforce conditions and maintain continuity across project lifecycle.



EXHIBITOR | INDUSTRIAL SCIENTIFIC

HALL: 7 | STAND: 7436

Route to resilience through connected safety in the energy sector's hazardous environments

Industrial Scientific discusses the latest solutions and innovations it is applying to protect people operating in hazardous environments while also tackling practical operational challenges and improving performance



As global energy demand continues to grow the challenge for the industry goes beyond increasing production. It is about ensuring that complex energy infrastructure operates safely, reliably and efficiently.

At Industrial Scientific, we see workforce safety as a fundamental part of operational resilience. For more than 35 years, we have focused on protecting people working in hazardous environments. Today, that also means connecting people, equipment and data so organisations can better understand risk, and prevent incidents before they happen.

Addressing practical operational challenges As part of Fortive, we apply the Fortive Business System and a

culture of continuous improvement to how we innovate and solve customer problems. Across Fortive, technology, software and data are used to address practical operational challenges and improve performance.

Artificial intelligence and advanced analytics will also influence how the industry manages safety and operational performance.

This approach is reflected in our latest developments, including Axen™ AX4 and Tectra™, our next-generation connected personal gas

monitoring ecosystem. They address different needs in the market, from straightforward, reliable gas detection to more connected safety programmes.

Software is becoming equally important. With iNet® Insights, the focus is on making better use of the information already generated by gas detection programmes, giving safety teams greater visibility into equipment performance, safety trends and potential risks.

Finding value in AI

Artificial intelligence and advanced analytics will also influence how the industry manages safety and operational performance. Their value will depend on how effectively organisations turn growing volumes of data into meaningful decisions, while maintaining the reliability and accountability required in critical industrial environments. The same principle applies to the wider energy ecosystem.

Strong collaboration across operators, technology providers and supply chains will be essential as infrastructure becomes more connected and the industry responds to changing energy needs.

At ADIPEC 2026, we are looking forward to exchanging perspectives with industry leaders on how connected technologies, operational intelligence and continued innovation can strengthen resilience across the energy sector.

For Industrial Scientific, innovation ultimately has one measure of success: does it help people go home safely at the end of every shift? That is what continues to drive our ambition to eliminate death on the job by 2050.

EXHIBITOR | GP:50 HALL: 7 | STAND: 7517

Taking pressure off those critical processes

GP:50 brings four decades of pressure-sensing expertise to demanding oil and gas operations

As global energy demand rises and infrastructure is pushed to operate under increasingly demanding conditions, resilience depends on more than expanding capacity. It requires reliable technologies throughout the energy ecosystem that help operators maintain safe, efficient, and consistent performance.

For 40 years, GP:50 NY Ltd. has designed and manufactured reliable and accurate pressure-sensing instrumentation engineered for demanding applications and harsh operating environments. At ADIPEC 2026, GP:50 will showcase pressure measurement solutions designed to support the durability and operational reliability required across today's oil and gas infrastructure.

Among these solutions is the GP:50 Model 370 WECO® Hammer Union Pressure Transmitter. Engineered specifically for demanding oilfield environments, the Model 370 withstands high shock and vibration while providing pressure ranges up to 20,000 PSI. Compatibility with multiple WECO® wing union fittings, hazardous-location approvals and available high-temperature configurations make it well suited for applications including fracking, cementing, coil tubing, mud pumps, choke and kill manifolds, and wellhead measurement.

For frack or pressure-pumping suction pressures involving viscous or potentially corrosive media, the Model 340-IM Flush Mount Pressure Transmitter provides another approach to resilient measurement. Its flush-face design helps prevent media from clogging or damaging traditional non-flush pressure ports, helping to keep systems running reliably. Its rugged, all-welded Inconel construction provides greater compatibility with corrosive media.

GP:50's Model 1002/1003-CA Series addresses another critical requirement – dependable pressure monitoring at a reasonable cost. Featuring corrosion-resistant stainless-steel wetted parts and housings, pressure ranges up to 10,000 PSI, and

multiple output and connection options, the series provides flexible integration into pumps, compressors, hydraulic, and pneumatic systems, industrial engines and other equipment supporting energy operations.

Together, these technologies demonstrate how instrumentation can contribute to stronger energy infrastructure. Accurate pressure data helps operators monitor critical processes, identify changing conditions and maintain dependable system performance.

As the industry gathers under the ADIPEC 2026 theme, "Where Energy Opportunity Takes Shape," GP:50 looks forward to demonstrating how four decades of pressure-sensing expertise continues to support a more reliable and resilient energy future.



EXHIBITOR | HAMRIYAH FREE ZONE AUTHORITY HALL: 12 | STAND: 12650

Bolstering supply links across the value chain

Hamriyah Free Zone provides a connected industrial platform where energy companies can manufacture, trade and grow closer to key regional and global markets

Energy resilience is no longer defined by how much energy the world can produce. It is defined by how effectively industries can respond to disruption, how reliably supply chains can operate, and how confidently companies can invest in infrastructure that keeps economies moving.

At Hamriyah Free Zone Authority (HFZA), we see resilience as an industrial capability, and we are building the ecosystem that enables it.

Strategically located in Sharjah, HFZA offers direct access to Hamriyah Port, a deep-water port designed to support large-scale industrial and maritime operations, alongside strong road connectivity and access to global trade routes.

This gives energy companies an efficient platform to manufacture, store, assemble, service, import and export at scale.

More than 2,000 companies across the oil, gas and energy sectors operate within this ecosystem, supported by over 30 million square metres of industrial land and infrastructure designed for heavy industry.

HFZA is also recognised as the second-largest petrochemical hub in the UAE, reinforcing its position as a major centre for energy-related manufacturing, storage, trading and specialised services. This concentration of industrial capability gives companies access to an established ecosystem of manufacturers, suppliers, service providers and logistics partners.

But resilience is more than scale. It is about reducing risk across the value chain. HFZA enables companies to operate closer to customers, suppliers and major regional markets, helping shorten supply chains, improve responsiveness and build greater continuity into their operations.

As energy systems evolve, robust industrial infrastructure is becoming increasingly critical. HFZA continues to attract companies involved in power equipment, steel pipe manufacturing, specialised coatings, engineered components, storage and logistics — capabilities that support major energy and infrastructure projects across the region.

At ADIPEC 2026, HFZA comes with a clear proposition: energy resilience requires places where manufacturing, infrastructure, logistics, investment and market access can converge.

That is what we are building in Sharjah, not simply a free zone, but a connected industrial platform where energy companies can de-risk growth, strengthen supply chains and turn ambition into operational capability.



EXHIBITOR | KAIROS

HALL: 8 | STAND: 8936

Removing the guesswork from industrial AI to generate recommendations that matter

Kairos Technology uses physics-based reasoning to give industrial AI greater transparency, helping operators to identify risks earlier while keeping the computational energy demands in check



This directly reduces risks to critical infrastructure.

Across live oil, gas and petrochemical control rooms, our technology has demonstrated root-cause identification accuracy of more than 90% and an early-warning window of 8-15 minutes ahead of a standard DCS alarm. This gives operators valuable time to intervene before a deviation escalates into an incident.

Because a single model underpins both HAZOP analysis and real-time operations, safety knowledge remains current as plants evolve, bridging the gap between design-time engineering and daily operations.

The industry's AI ambitions carry a resilience paradox of their own: deploying more AI to manage complexity also creates additional, energy-intensive computing demand.

Our approach is deliberately lightweight, using physics-based reasoning rather than large, opaque models to strengthen infrastructure without significantly increasing the computational and energy burden associated with AI.

At ADIPEC 2026, we are most excited to demonstrate how this approach bridges safety engineering and live operations. A single model, reviewed once by engineers, can continuously and transparently protect critical infrastructure.

As the industry balances rising demand with long-term energy security, we believe explainable, deterministic AI, rather than simply faster AI, is what will earn a lasting place in the control room.

As global energy demand accelerates and infrastructure becomes more interconnected, resilience is no longer just about redundancy. It is about understanding, in real time, why a system behaves the way it does. At Kairos Technology, we believe explainability is the missing layer of energy resilience.

Most industrial AI systems today operate as black boxes. They are fast, but opaque. When a control room cannot interrogate a recommendation, it cannot fully trust it, and trust is essential to safety-critical operations.

Our Control Room Assistant and HAZOP Assistant are built on Multilevel

Flow Modelling, a physics-based, deterministic reasoning engine that provides operators with consistent answers from the same inputs, every time, with a causal chain traceable back to the piping and instrumentation diagram (P&ID).

At ADIPEC 2026, we are most excited to demonstrate how this approach bridges safety engineering and live operations.

EXHIBITOR | HANDOL PUMPS

HALL: 15 | STAND: 15120

Engineered pumps for critical applications

HANDOL PUMPS combines API 610 technology, engineering expertise, and manufacturing flexibility to support reliable operations and diversified energy supply chains

As global energy demand continues to rise, resilience depends not only on securing new sources of energy, but also on ensuring that critical infrastructure operates safely, reliably, and continuously. Refineries, petrochemical complexes, pipelines, terminals and power facilities all rely on rotating equipment that must perform under demanding operating conditions. Reliable pumping systems are therefore an essential part of a secure and resilient energy ecosystem.

HANDOL PUMPS is a Korean specialist manufacturer of API 610 centrifugal pumps, providing engineered pumping solutions for the oil & gas, petrochemical, chemical, and power industries. With products supplied to customers in more than 30 countries, we combine engineering expertise, manufacturing flexibility, and international quality standards to support critical energy infrastructure worldwide.

Our approach to resilience begins with reliability. HANDOL PUMPS offers a comprehensive API 610 product portfolio, including OH1, OH2, OH3, OH4, BB1, BB2, BB3, BB4, BB5, VS1, VS4, VS5 and VS6 configurations. Engineered for demanding applications across the energy value chain, our pumps are designed for long-term operation, maintainability and application-specific requirements, helping operators reduce unplanned downtime and strengthen operational continuity.

Supply chain resilience is equally important. Recent global disruptions have highlighted the risks of dependence on limited manufacturing sources and extended procurement cycles. HANDOL PUMPS provides energy companies and EPC contractors with an alternative supply source, combining Korean engineering and quality control with manufacturing flexibility and a global supply network. This enables customers to diversify procurement, mitigate supply chain risks and improve project execution.

As AI, data centres, and electrification accelerate global power demand, dependable energy infrastructure will become even more critical. Pumps may operate behind the scenes, but they remain fundamental to producing, processing, and transporting the energy that modern economies require.

At ADIPEC 2026, HANDOL PUMPS will showcase its API 610 pumping solutions for critical energy applications. Under the theme, 'Where Energy Opportunity Takes Shape,' we look forward to building partnerships that make the global energy supply chain stronger, more diversified, and more resilient.



EXHIBITOR | HOBARK INTERNATIONAL LIMITED

HALL: 15 | STAND: 15224

De-risking investments in an evolving sector

Hobark Group combines workforce expertise, drilling technologies, well intervention and production solutions to strengthen asset performance across Nigeria and West Africa

Hobark International Limited (HIL) arrives at ADIPEC 2026 positioning the Hobark Group as a provider of energy security, specialised asset optimisation, and investment de-risking across the Nigerian and West African oilfields. As rising global demand forces the energy sector to balance reliable supply with operational resilience, Hobark leverages an integrated ecosystem of technical subsidiaries and global alliances to maximise the value of existing hydrocarbon infrastructure and safeguard investments.

The group helps de-risk multi-million-dollar capital projects by addressing some of the industry's most volatile variables, including specialised talent shortages, technical execution risks, and structural asset degradation. Through Hobark Consultant Management Services (HCMS), operators gain access to compliant, cross-border workforce solutions. On the rig floor, Drillpet International Limited (DIL), working with technology giants like Baker Hughes and Halliburton, deploys high-precision directional drilling, measurement while drilling (MWD), and borehole gyroscopic surveying to reduce costly non-productive time (NPT) and protect critical infrastructure.

To extend the lifespan of maturing assets, South Western Technologies delivers targeted well interventions, while H-PTP Energy Services designs optimised well-delivery systems aimed at reducing lifecycle fuel and power consumption. At the same time, Hobark addresses the energy sector's localised power demands by replacing energy-intensive mechanical cleaning processes with advanced chemical technologies. At ADIPEC 2026, Hobark is showcasing Tuwal Limited's environmentally safer Micro-Emulsion Breaker (MEB) portfolio. These advanced solutions are designed to remediate reservoir damage caused by synthetic muds, remove filter cakes, and restore original permeability. According to the company, the technology can boost localised well production from 200% to more than 1,000%,

without the carbon intensity and capital expenditure associated with drilling new wells, demonstrating how Hobark is seeking to support more efficient and sustainable production.

From human capital to complex subsurface engineering, the Hobark Group delivers scalable, asset-focused solutions designed to strengthen resilience and support the energy systems of tomorrow.



EXHIBITOR | MANNESMANN ENERGY HALL: 9 | STAND: 9410

The advantages of putting global energy technology to work in the UAE

Eng. Anas Aljuaidi, Chief Executive Officer, **Mannesmann Energy**, shares why building local engineering expertise is key to turning global technologies into reliable, commercially viable solutions



Choosing a new energy technology does not mark the end of the technical assessment. Engineers still need to test design assumptions, understand its impact on existing facilities and establish maintenance requirements. These considerations determine whether a new system operates safely, reliably economically.

The UAE has decades of experience in complex energy projects, supported by international collaboration. As technologies evolve, however, operators need expertise to judge their suitability. I believe, the UAE's next industrial advantage depends on developing that judgement locally. My experience with UAE–Germany industrial cooperation has shaped this perspective.

Germany brings industrial engineering expertise, while the UAE contributes regional knowledge and experience in energy development. Collaboration allows engineers to question specifications, compare options and develop practical understanding beyond what a completed installation can provide.

Localisation extends beyond manufacturing. It includes the ability to evaluate designs, and challenge suppliers and support systems after commissioning. Local teams need access to technical discussions and decision-making, rather than receiving training only at handover. Procurement specifications should also reflect the locally available maintenance skills, spare parts and technical support. These experiences help Emirati engineers take greater responsibility for future projects.

Green hydrogen illustrates why this matters. Beyond the electrolyser, projects require competitively priced renewable electricity, water supplies, safe storage and transport, and customers. Without a realistic route to market, even efficient electrolyser cannot guarantee commercial success. Engineers must evaluate these interconnected requirements early, when design changes remain possible.

Retrofitting refineries or gas-processing plants presents another set of choices. While some facilities may benefit most from process optimisation, others may need infrastructure upgrade to

accommodate future technologies. Engineers must examine the operating conditions, the implications for connected processes and the cost of disruption before recommending a course of action.

At Mannesmann Energy, our capabilities span oil and gas, infrastructure and sustainability. We are an independent Emirati EPC contractor and technology integrator, with an engineering scope that includes conceptual design, process optimisation, front-end engineering and project management. Green hydrogen and decarbonisation are key priorities, but emerging process must meet the established standards of safety, integration, operating costs, and maintenance. International partnerships broaden access to solutions, but evaluating their suitability remains an engineering responsibility.

At ADIPEC, conversations about international partnerships should therefore extend beyond technology to address engineering accountability and knowledge transfer. Emirati engineers need meaningful roles in selecting, adapting and commissioning new systems. Knowledge transfer should be discussed alongside technical specifications and project costs, rather than treated as a benefit that may follow. Our aim should be to ensure that, when the next project begins, more of its critical engineering decisions can be made here with confidence.

“At Mannesmann Energy, our capabilities span oil and gas, infrastructure and sustainability.”

EXHIBITOR | HUBBELL HALL: 8 | STAND: 8256

Maximising uptime and reducing operation risk

Hubbell's electrical, lighting and emergency communications solutions help energy operators strengthen safety, reliability and business continuity across onshore and offshore assets

Rising global energy demand requires operators to expand capacity without compromising the safety, reliability or resilience of critical infrastructure. Across hydrocarbons, LNG, petrochemicals, hydrogen and emerging projects, energy security depends on facilities engineered for continuous operation in challenging conditions. Hubbell specialises in reliable electrical infrastructure, lighting and emergency communications.

Reliability comes not only from major equipment, but also from trusted technologies that protect people, sustain uptime and strengthen business continuity. Deployed across onshore and offshore facilities worldwide, these solutions help multinational operators maintain consistent safety and performance standards across regions. With energy projects requiring substantial long-term investment, reliability and safety must be embedded from the design stage. Hubbell's solutions help customers reduce risk, meet international standards and improve asset lifecycle performance.

Recent advancements in AI technology will enhance predictive maintenance, operational optimisation and decision-making. However, their success will continue to depend on resilient physical infrastructure. As facilities become more automated and connected, dependable electrical systems, connectivity, lighting and emergency communications remain essential to safe, uninterrupted operations. Hubbell provides critical infrastructure that keeps personnel connected, equipment operational and hazardous facilities reliable as digital transformation accelerates.

Across offshore platforms, refineries, petrochemical plants, terminals and storage sites, Hubbell's technologies support safer and more resilient operations. As facilities pursue greater productivity without compromising safety, operators need lighting that delivers strong performance with reduced maintenance and long-term

reliability. In hazardous and offshore settings, effective lighting is fundamental to workforce safety, inspections, maintenance and asset performance.

At ADIPEC 2026, Hubbell will showcase Chalmers, Hawke, GAI-Tronics and Killark solutions spanning hazardous-area lighting, electrical connectivity, critical communications and certified enclosures.

Industry progress depends on technologies that maximise uptime, reduce risk and protect personnel. Even as automation reshapes the energy sector, resilient infrastructure remains its foundation. Hubbell delivers solutions that support safer operations, greater reliability and long-term value across onshore and offshore assets.



EXHIBITOR | IAMSEA GLOBAL MARINE SERVICES HALL: 15 | STAND: 15438

Keeping offshore energy moving forward

UAE-based IAMSEA Global Marine Services explains how its asset-light and adaptable vessels model lets clients scale capacity with no fleet-owning commitment so ships keep earning and projects stay on schedule

Offshore energy resilience depends on more than platforms and pipelines. It depends on the vessels that supply, install, maintain and accommodate them. Rising power demand, including from AI-driven data centres, leaves little tolerance for schedule slippage. When a vessel is unavailable, mis-specified or held up by an unresolved technical fault, that risk lands on the project.

IAMSEA Global Marine Services, based in Abu Dhabi, supports operators and contractors across Africa and the Middle East as an asset-light representative owner, covering the vessel lifecycle from brokerage and chartering to ship management, supply, repair and dry-docking, and conversion and retrofitting.

Right vessel, faster. We provide AHTS, AHT, PSV, DSV and MSV tonnage, plus construction, accommodation, pipe-laying and cargo barges and landing craft, on spot or long-term charter. Our asset-light model lets clients scale capacity to project demand without taking on fleet ownership.

Adapting existing tonnage. Rather than waiting for new-builds, we adapt existing vessels to their next contract. Engineering from feasibility to FEED and detailed design, accommodation and POB increases, crane, gangway and pipelay integration, and propulsion or DP upgrades are delivered with specialist partners, coordinated with class and flag.

DP and technical recovery. For DP vessels we support integration, FMEA and proving trials, and operating documentation (ASOG, CAM). When faults cross control, power and machinery boundaries, we trace them through PLC logic, drives and thruster controls, including legacy equipment where spares are limited.

Readiness and delivery. From reactivation and OVID preparation to FAT, harbour, sea and DP trials, one coordinated programme with visible cost and a clear completion standard keeps vessels earning and projects on schedule.

Operational assurance. Ship management under IMO, SOLAS and ISM standards, with 24/7 support, covers technical, crew and operational needs. During ADIPEC 2026, we are looking forward to discussing vessel requirements, conversions and technical support with operators, owners and yards.

Where energy opportunity takes shape offshore, vessels ready on day one make it deliverable.



EXHIBITOR | MSA SAFETY

HALL: 8 | STAND: 8176

Shielding infrastructure from fire and gas in a business balancing risk and demand

Kevin Killeen of MSA Safety discusses the importance of understanding risk, combining technologies, and improving visibility across detection systems in the face of rising operational demands



How important are detector positioning and coverage?

Even advanced detection technology can provide limited value if it is not positioned appropriately. Fire and gas mapping can complement engineering expertise by modelling higher-risk areas and assessing detector coverage, helping operators make more informed decisions about where different technologies should be located.

Where are the biggest opportunities to strengthen resilience?

Greater visibility into detector health and condition is a major opportunity. Advanced diagnostics and analytics can support maintenance and lifecycle decisions, while digital connectivity can improve how devices communicate and share information.

For MSA, the future lies not only in advancing individual detection technologies, but in supporting more connected strategies that give operators greater visibility of both facility risks and the equipment used to manage them.

What are some of the biggest fire and gas detection challenges facing operators today?

One of the central challenges is balancing growing operational demands with effective risk management. Operators need to understand where combustible or toxic gases, ignition sources and other hazards may exist, while helping to make sure systems can identify developing risks without unnecessary nuisance alarms. A resilient strategy therefore needs to consider risks across the facility alongside changing operational requirements.

Why is a layered approach to detection so important?

No single detection technology is suited to every hazard or environment. Point gas detection can identify releases at specific locations, open-path technology can provide wider-area coverage, ultrasonic detection can identify the sound of pressurised leaks, while flame detection provides an additional layer if ignition occurs. Combining complementary technologies helps operators build protection around the specific risks present at a facility.

“Advanced diagnostics and analytics can support maintenance and lifecycle decisions, while digital connectivity can improve how devices communicate and share information.”

EXHIBITOR | INTERWELL | HALL: 4 | STAND: 4110

Building resilience from the well upwards

Interwell is helping operators extend well life, maintain integrity and optimise production through technologies that reduce intervention requirements and strengthen operational continuity

Energy resilience starts below the surface. Every barrel of oil and cubic meter of gas reaching the market depends on wells performing with integrity and efficiency, safely and reliably, for decades. "At Interwell, our role is to ensure they do," says Geir Owe Egge, Senior Vice President, Managing Director, MENA, Interwell.

"Our solutions strengthen resilience through reliability, security, and operational continuity. We restore well integrity, so wells continue producing safely, provide qualified and verifiable barriers that protect people, the environment and assets, and solve integrity challenges through tubing without major rig operations," adds Egge.

The company's next-generation gas lift and water shut-off solutions further optimise production, helping operators get more from existing wells and fields while reducing unwanted water.

Resilience also means scaling solutions efficiently across multiple wells and fields while maintaining operational continuity. By reducing dependence on heavy intervention, minimising rig requirements and deploying repeatable technologies, operators can respond faster to integrity challenges, protect production and sustain performance across their asset base.

Emphasising that risk reduction and value creation are central to the company's approach, Egge says, "Our engineers work with operators from planning through execution, adapting solutions to individual well conditions. Fewer interventions and rig days mean reduced HSE exposure, lower costs and more dependable infrastructure, while protecting production and improving returns.

"Our technology supports assets across the well lifecycle. Our well integrity portfolio includes gas lift, testable glass barriers, wellhead annulus safety systems, and chemical injection. In intervention, expandable barriers such as HEX and CannSeal

isolate leaks or unwanted water and restore annular integrity. At the end of life, P&A technologies, including RockSolid™, provide permanent rock-to-rock barriers designed to protect the environment for the long term."

At ADIPEC 2026, under the theme, "Where Energy Opportunity Takes Shape", the company is showcasing RockSolid™ P&A solution, CannSeal, Digital Solutions, the HEX family for cased-hole and open-hole solutions.

The industry must produce more reliably from existing assets, and that opportunity depends on trusted infrastructure, scalable solutions and strong in-country capabilities to support operational continuity.

Interwell remains focused on resilient wells, resilient operations, and more secure energy supply.



EXHIBITOR | KMASS | HALL: 9 | STAND: 9350

Shielding key equipment against fire risks

KMASS brings field installable passive fire protection closer to critical process control equipment across energy infrastructure

Energy security is no longer defined only by access to resources. It increasingly depends on the resilience of the infrastructure that produces, processes, and moves that energy reliably.

Recent tensions across the Middle East have underlined why protecting critical energy infrastructure and vulnerable supply chains matters. For operators and EPCs, de-risking investment now extends beyond securing supply; it means strengthening the physical assets and equipment on which safe, reliable operations depend on.

Local availability adds another layer of resilience. With K MASS® FI (field installable) version in the UAE, regional operators and EPCs can reduce dependence on extended international supply chains and access critical fire protection closer to where it is needed. Technology has a growing role in this equation, not only in expanding infrastructure, but in fortifying existing assets and building resilience into new projects.

Critical Process Control Equipment, or CPCE, includes actuators, valves, junction boxes and limit switches. Individually unremarkable, they are collectively essential. In a hydrocarbon fire, whether this equipment remains operable can determine whether a process stays under control or an incident escalates.

K MASS® FI takes a different approach to passive fire protection for CPCE. Its proprietary mouldable intumescent epoxy reacts to heat by expanding and developing an insulating char, slowing the rise of equipment temperature and shielding critical internal components.

Field installability is central to its practical value. K MASS® FI can be retrofitted to existing, in-service actuators with minimal installation space, no special tools, and no need to send equipment away for coating. For brownfield facilities,

maintenance programmes and new projects alike, this gives operators flexibility over when and where protection is installed, while reducing logistical complexity.

This resilience does not come at the expense of functionality. Equipment remains fully usable, controls remain accessible, and intumescent glass preserves visibility and IR device functionality. Performance has been demonstrated through functional testing in compliance with API 2218 and the UL 1709 fire test curve for a minimum of 30 minutes at 1,093°C.



EXHIBITOR | PNNPLUS GMBH

HALL: 12 | STAND: 12851

Turning downhole data into prime reservoir intelligence that can prolong an asset's lifespan

Ognjen Zajsek, PnnPlus Owner & R&D Manager, **PNNplus**, combines advanced well-logging technology with high-temperature capability to help operators maximise reservoir performance and extend asset life



As the global energy sector faces increasing demands for security, efficiency and responsible resource management, reliable knowledge of subsurface conditions has become essential. PNNplus GmbH supports operators with advanced well-logging technologies and reservoir evaluation solutions designed to extend the productive life of existing assets, improve operational decisions and perform reliably even under challenging downhole conditions.

At the core of our technology portfolio is Pulsed Neutron Neutron (PNN) technology. By directly measuring the decay of thermal neutrons, PNN provides high-resolution Sigma measurements for evaluating oil, gas and water saturation behind casing. The technology is particularly valuable in low-salinity and low-porosity formations,

where conventional thermal decay methods can face limitations. This enables operators to identify remaining hydrocarbon reserves, monitor fluid movement, evaluate reservoir dynamics and improve understanding of mature fields without unnecessary intervention. Combined with time-lapse analysis and existing reservoir data, these measurements provide actionable information for production optimisation and long-term reservoir management.

“Our objective is straightforward: deliver robust technology, reliable measurements and clear answers.”

Energy resilience also requires technologies capable of operating under increasingly demanding conditions. PNNplus has therefore developed an Ultra High Temperature Pulsed Neutron Tool engineered for reliable reservoir evaluation at temperatures up to 200°C.

The system has demonstrated continuous six-hour operation at 200°C while maintaining stable performance, opening applications not only in demanding oil and gas environments but also in high-temperature geothermal wells.

Beyond saturation monitoring, PNNplus provides production logging, casing inspection, cement evaluation, leak and channelling detection, and advanced well integrity analysis. Together, these technologies help operators understand existing wells more effectively, detect integrity issues and make informed decisions before committing to costly interventions.

Founded in Austria by specialists with decades of international well-logging experience, PNNplus combines engineering, field services and data interpretation in an integrated approach. Our objective is straightforward: deliver robust technology, reliable measurements and clear answers.

By transforming complex downhole data into practical reservoir intelligence, PNNplus helps operators maximise existing resources, improve well integrity and strengthen the reliability of energy production — contributing to a more secure and resilient energy future.

EXHIBITOR | KRAL HALL: 12 | STAND: 12856

Reliability today and adaptability for tomorrow

Austrian firm **KRAL** details how it supports the oil and gas industry and critical processes with core infrastructure that can operate reliably in demanding conditions and under pressure

Rising energy demand combined with geopolitical uncertainty and complex supply chains are presenting the energy industry with a dual challenge.

That of ensuring security of supply today while continuing to develop infrastructure for the energy systems of tomorrow. Therefore, energy resilience means more than just withstanding disruptions. Crucial factors include the ability to keep critical processes stable, mitigate risks, and adapt flexibly to changing conditions. In the oil and gas industry in particular, this resilience depends on the availability of core infrastructure. Pumps, measurement systems, and supply circuits must operate reliably, even under demanding operating conditions. KRAL supports these requirements with screw pumps, pump stations, and high-precision flow measurement technology.

A variety of pump concepts covers a broad spectrum of applications. The modular KRAL G Series enables compact, application-specific solutions and is available in versions compliant with API 676. The twin-screw KRAL Z Series further expands the portfolio for high flow rates as well as demanding, low-lubricity, aggressive, or contaminated fluids. This allows KRAL to provide solutions for a wide range of requirements within critical oil and gas processes, from lubrication and supply circuits to transfer applications. Transparency regarding material flows and consumption is also essential for resilient energy processes. Precise flow measurement provides the reliable data needed for this purpose. It enables operators to control processes more efficiently, detect deviations, and utilise resources more effectively.

Efficiency and viability

As energy demand continues to rise - driven in part by digitalisation and AI - this efficiency is becoming even more important.

However, resilience also encompasses future viability. With pump and measurement solutions for new energy carriers and future fuels, KRAL supports the gradual evolution of existing energy systems.

This is where the ADIPEC message "Where Energy Opportunity Takes Shape" becomes tangible. Opportunities emerge where reliable infrastructure, precise data, and technological adaptability come together.

At ADIPEC, KRAL will demonstrate how fluid-handling and measurement technology can make critical energy processes more robust, efficient, and sustainable for the long term.



EXHIBITOR | LESER HALL: 13 | STAND: 13390

Valves that secure infrastructure under pressure

LESER's pilot-operated safety valves offer high capacity, rapid response, and reliable tightness to protect critical oil, gas, LNG, and offshore infrastructure under demanding operating conditions

As the global energy landscape evolves, reliable, and efficient safety systems are becoming increasingly important. LESER's pilot operated safety valves (POSVs) help future proof energy infrastructure by providing dependable overpressure protection across demanding oil, gas, LNG, and offshore applications. Their high capacity, rapid response, improved tightness, and ability to operate under extreme pressure and cryogenic conditions contribute to safer, more efficient, and resilient energy systems.

Overpressure protection is essential for safeguarding vessels, pipelines, and process equipment from potentially damaging pressure conditions. While spring loaded safety valves remain widely used, pilot operated safety valves offer distinct advantages for applications where high pressure, operating efficiency, and tightness are critical. These technologies are covered within the framework of the ISO 4126 standards for overpressure protection.

LESER's pop action pilot operated safety valves, including the Type 811, are designed to open and close rapidly. The valve can open at approximately 1% overpressure and close at around 97% of the response pressure, with the closing pressure adjustable to lower levels. This short blow-off cycle helps minimise process medium losses while maintaining reliable pressure protection. Their pressure dependent closing force also supports improved tightness, particularly when operating close to the set pressure.

In natural gas transportation, pipelines operate at high pressures and require compressor stations to compensate for pressure losses over long distances. High-capacity safety valves are essential in these facilities. LESER's dual outlet pilot operated safety valve design directs the discharged medium in opposite directions, helping to balance reaction forces. This can reduce structural requirements and associated construction costs.

The technology is also valuable for LNG applications, where temperatures can reach approximately -161 to -164°C. Specialised sealing solutions and pilot configurations enable reliable operation under demanding cryogenic conditions.

Offshore energy production presents another challenge, with gas injection pressures exceeding 600 bar in some deep-water applications. Pilot operated valves can support lower design pressures through smaller closing pressure differentials, potentially reducing material requirements, equipment weight, and overall system costs.

By combining safety, efficiency, adaptability, and performance under extreme conditions, LESER's pilot operated safety valves provide a robust solution for the evolving requirements of the global energy ecosystem.



EXHIBITOR | PORTO MARINE SERVICES

HALL: 15 | STAND: 15235

A strategy where innovation meets depth to enable operators get the most from every asset

Porto Marine Services is present at ADIPEC this edition to detail how it powers offshore resilience with AI and automation while still calling upon hands-on marine expertise to secure supply, costs and personnel



With global energy demand on the rise resilience depends on keeping the infrastructure that delivers energy safe, productive and available for longer.

At Porto Marine Services, we believe the answer lies in combining hands-on marine expertise with artificial intelligence and automation, helping operators get more from every offshore asset while protecting their people, budgets and long-term security of supply.

AI: part of the challenge, part of the answer

AI's rapid adoption is driving new power demand worldwide, making unplanned downtime more costly than ever. Yet the same technology is transforming how infrastructure is maintained. Porto Marine Services is investing in AI to

help turn inspection data into clearer decisions on what to inspect, repair and prioritise, reducing unnecessary work and extending asset life. Our cloud-based digital platform already gives clients real-time visibility of equipment, personnel and project progress.

AI's rapid adoption is driving new power demand worldwide, making unplanned downtime more costly than ever.

Automation with our technology partner

Together with our international technology

partners, we are bringing automation across the energy asset lifecycle: smart sensors that monitor asset health around the clock, robotic inspection that keeps people out of hazardous areas, and subsea construction vehicles that quickly access buried pipelines and cables.

Combined with our divers and ROV teams, these technologies help fortify offshore platforms, pipelines and the subsea cables connecting grids and renewable energy.

These partnerships also show how cross-border collaboration brings proven innovation into the region, delivered by local teams.

Business value for operators

- Lower risk: fewer unplanned shutdowns and more secure supply chains
- Lower cost: targeted maintenance that reduces OPEX and extends asset life
- Safer operations: less human exposure in hazardous environments
- One partner: for comprehensive marine and offshore requirements, handling inspection, repair and maintenance through advanced automation capabilities

At ADIPEC 2026, in line with this year's theme, "Where energy opportunity takes shape", we are excited to showcase our integrated services alongside our partners' automation technologies. And to share our vision for AI-enabled asset care, accelerating the industry's shift from reactive maintenance to predictive, data-driven operations. Visit us at Hall 15, stand 15235.

EXHIBITOR | MARJAN HALL: 10 | STAND: 10230

Strengthening local execution capabilities

MARJAN explains how by identifying risks early and enabling proactive intervention it can enable clients to maximise asset integrity, safety and availability, as well as reliability and service life

The energy sector must balance increasing requirements with the need for resilience, reliability and long-term security as global energy demand continues to rise.

At MARJAN, we believe energy security starts with reliable infrastructure and intelligent asset management. MARJAN helps operators maximise asset integrity, availability and service life through specialised inspection, intelligent pigging, soap stick operations, logging, and other field services. By identifying risks early and enabling proactive intervention, we support customers in operating their assets more safely, reliably and efficiently. In an increasingly complex energy landscape, reducing uncertainty is essential to protecting investments and strengthening supply chains. MARJAN's inspection and field-service capabilities provide reliable asset-condition data, helping customers make informed decisions on maintenance, asset life extension and capital investment. Through regional development, local expertise and international partnerships, MARJAN also contributes to strengthening local execution capabilities and supply chain resilience.

Opportunities from technology

Digitalisation and artificial intelligence are creating new opportunities for smarter asset management. We see AI as an enabler of data-driven decision-making. Our high-quality inspection and field data provide the foundation for predictive analytics and AI-enabled asset integrity management through OneView for Pipeline and Well Integrity Services. By supporting condition-based and predictive maintenance, these solutions can help reduce unnecessary interventions, minimise downtime and optimise resource utilisation.

Protecting critical infrastructure requires accurate asset intelligence and timely intervention. Through intelligent pigging, advanced inspection and specialised logging services, including high-resolution acoustic imaging and ultrasound-based

inspection technologies, MARJAN helps operators identify integrity threats in pipelines and other complex assets before they become costly failures. Our objective is to help keep critical infrastructure safe, reliable and productive for longer.

At ADIPEC, MARJAN will showcase solutions combining advanced inspection, intelligent pigging, logging, digitalisation and data-driven asset integrity. Our focus is on supporting the industry's shift from reactive maintenance towards predictive, risk-based decision-making.

By transforming asset data into actionable intelligence, MARJAN helps customers reduce downtime, extend asset life and optimise investments, thereby contributing to a safer, more resilient and more efficient energy future.



EXHIBITOR | MARLINK HALL: 16 | STAND: 16378

Engineering the digital backbone of energy

Marlink combines multi-orbit connectivity, intelligent network management and cybersecurity to keep critical energy infrastructure connected and secure

Energy operations no longer just rely on connectivity; they depend on it. A dropped satellite link, a congested network, or an unplanned outage doesn't just interrupt a data feed, it can halt production, compromise safety monitoring, or leave a remote platform without the real-time visibility needed to respond to a developing risk.

As offshore platforms, pipelines, utilities and renewable assets adopt more connected devices, digital applications and data-driven workflows, the network has shifted from a background utility to the operational backbone supporting safety, production and business performance.

That shift raises the stakes. Global energy demand continues to rise, while operators face growing pressure to keep infrastructure secure, reliable and efficient across increasingly complex and remote environments. Resilience determines whether real-time data, remote support, AI-driven automation, predictive maintenance, and cloud-based applications continue functioning when conditions change, or fail precisely when they're needed most. That's why resilience can no longer be treated as a simple failover plan bolted onto the network after the fact it has to be built in from the start.

Multi-orbit networks to support critical infrastructure

This requires combining satellite and terrestrial links so that no single provider becomes a point of failure. LEO services, such as Starlink, OneWeb, Amazon Leo alongside GEO, MEO, terrestrial and 4G/5G networks, can create adaptable multi-orbit connectivity, helping sustain operations, crew communications and business continuity through outages or congestion.

Intelligent networks that drive value

Effective network management matters. Intelligent orchestration can monitor links, route traffic and prioritise applications such as SCADA and remote monitoring, maximising availability and performance across the network.

As IT and OT converge, segmentation can separate operational technology (OT) systems from corporate networks, while passive monitoring helps detect threats without disrupting operations. Marlink pairs IT security with specialist OT capabilities, enabling edge processing and AI-driven analytics to run safely at scale.

Marlink integrates multi-orbit connectivity, network management and cybersecurity into a single managed solution designed to keep critical infrastructure connected and secure. As ADIPEC 2026 explores 'Where Energy Opportunity Takes Shape', resilient digital infrastructure will be a key enabler of the energy systems being built around it.



EXHIBITOR | REMBE

HALL: 11 | STAND: 11640

Reliable pressure relief and explosion protection are part of where the resilience journey begins

REMBE's rupture disc technology helps protect critical energy infrastructure, supporting operational continuity, asset safety and investment confidence for better working outcomes



The conversation around energy security often focuses on generation capacity, grid expansion and supply diversification.

Yet a significant part of resilience is determined well before power reaches a turbine or data centre. It depends on how safely and reliably critical assets can operate under pressure.

At REMBE®, this is where our expertise lies. As energy demand continues to rise, the industry must scale without compromising safety margins.

Gas processing plants, storage terminals, pipelines and offshore platforms are operating under

increasingly demanding conditions, with tighter operating windows and higher throughput.

Reliable pressure relief and explosion protection are therefore essential to maintaining both operational resilience and long-term security.

This also plays a crucial role in de-risking investments. Unplanned shutdowns can have significant financial and reputational consequences.

Properly engineered rupture discs provide a reliable layer of protection for critical equipment, helping operators maintain uptime while protecting people, processes and assets. In this way, safety technology contributes not

only to operational security but also to investment confidence.

At the same time, the rapid growth of artificial intelligence is creating a new dimension of energy demand. Data centres require enormous amounts of electricity and highly reliable power infrastructure, putting additional pressure on generation capacity and existing energy systems. As this demand grows, the need for dependable equipment and robust safety solutions becomes even more critical.

At ADIPEC 2026, REMBE® will showcase how modern rupture disc technology – reliable, robust, precise and made-to-measure – can help protect both new and ageing infrastructure, in many cases without requiring a full plant shutdown.

Pressure relief may not be the most visible aspect of the energy transition. But when it comes to resilience, what you cannot see can make all the difference.

At ADIPEC 2026, REMBE® will showcase how modern rupture disc technology – reliable, robust, precise and made-to-measure – can help protect both new and ageing infrastructure, in many cases without requiring a full plant shutdown.

EXHIBITOR | MBK MARINE HALL: 15 | STAND: 15364

Local marine excellence at the heart of resilience

MBK Marine says its integrated facilities in Abu Dhabi support complex marine assets and energy projects by applying local industrial capability to remove risk and minimise logistics exposure

With global energy demand on the rise and the energy landscape becoming increasingly complex, resilience is no longer simply about securing energy supply.

It is about building the industrial capacity to keep critical energy infrastructure operational, adaptable, and ready for the future. Marine infrastructure sits at the heart of this resilience. Offshore platforms, barges, support vessels, pipelines and energy projects depend on reliable shipbuilding, repair, modification and fabrication capabilities.

When these capabilities are available closer to the point of operation, energy companies can reduce mobilisation risks, shorten response times and strengthen supply chain security. Abu Dhabi-based MBK Marine operates a 90,000 m² shipyard in ICAD II, providing integrated capabilities across shipbuilding, ship repair, jack-up repair, offshore and heavy steel fabrication for the marine and energy sectors.

The facility offers multiple dry-docking solutions to support diverse ship repair requirements, complemented by a dedicated 200-metre jetty, load-out facilities and a marshalling yard. Together, these capabilities provide the scale, flexibility and operational readiness required to support complex marine assets and energy projects.

Localised advantages

This local industrial capability can play a critical role in de-risking projects.

By enabling engineering, fabrication, repair and modification activities within the UAE, operators and EPC contractors can reduce reliance on international yards, minimise logistics exposure and respond more effectively to changing operational requirements.

It also supports the UAE's drive towards greater localisation, industrial resilience and value creation within the national energy ecosystem.

As digitalisation and AI transform the energy sector, physical infrastructure must evolve alongside them. New technologies can improve decision-making, predictive maintenance and operational efficiency, but their value ultimately depends on resilient physical assets and the infrastructure that supports them.

Marine assets remain essential to the construction, maintenance and expansion of offshore energy infrastructure and associated supply chains. During this ADIPEC edition, MBK Marine is showcasing its expanding capabilities and will engage with energy companies, EPC contractors and industry partners seeking stronger regional marine solutions.

Our ambition is to help build a more resilient energy ecosystem by strengthening the marine infrastructure that keeps it moving.



EXHIBITOR | MOLECULAR CORROSION TECHNOLOGIES HALL: 16 | STAND: 16028

Safeguarding assets powering the AI boom

MCT, the Belzona authorised distributor for the UAE, is showcasing polymeric solutions designed to protect critical assets against corrosion and premature failure

The rapid adoption of artificial intelligence (AI) is transforming industries and reshaping economies. This growth depends not only on digital advancement but also on reliable energy supplies and robust physical infrastructure. According to the International Energy Agency (IEA), global electricity demand from data centres is projected to more than double, from 460 TWh in 2024 to over 1,000 TWh by 2030. These figures highlight the need for reliable energy supplies, as well as the construction and maintenance of the physical infrastructure required to support growing AI data centre operations. While the digital ecosystem is central to AI development, maintaining physical assets is equally critical to keeping pace with technological advancement and the growing demand for digital services.

AI data centres and energy infrastructure rely not only on digital management but also on the integrity of their physical assets. Polymeric repair composites and protective coatings can help improve the reliability of AI infrastructure and power generation assets. By applying these solutions to equipment and infrastructure such as rotating equipment, pipework, desalination systems, cooling systems and concrete structures, data centre and energy generation operators can reduce the need for replacement, minimise downtime and maintain productivity. These solutions can also extend asset life by help protect critical equipment against corrosion and premature failure.

MCT, the Belzona authorised distributor for the UAE

At ADIPEC 2026, MCT, the Belzona Authorised Distributor for the UAE, will showcase Belzona polymeric solutions designed to support the reliability of assets critical to the development of the technology ecosystem. By using these solutions to repair and protect critical infrastructure, operators can help improve asset resilience and operational reliability while supporting growing demand across the interconnected AI and energy sectors.



EXHIBITOR | SAIP HALL: 1 | STAND: 1451

Protecting critical energy systems from pressure fluctuations at every stage

SAIP's Model L-LAV pulsation dampener reduces pressure fluctuations to protect equipment, minimise downtime, and extend asset life, but the company says success begins with material selection



compound (NBR, FKM, FFKM, EPDM, ECO, Butyl), and is available in AISI 316L up to 150 bar or Duplex F51 up to 250 bar. Certifications include ASME VIII Div. 1, PED 2014/68/EU, DOSH, NORSOK-compliant materials and marine class approvals from ABS, Lloyd's Register, DNV, RINA and Bureau Veritas. The model is also ATEX-ready and compatible with API 674 and API 675 pumps.

SAIP is an Italian manufacturer of hydropneumatic accumulators and pulsation dampeners, based in Opera, Milan.

Energy resilience in oil and gas is often discussed at the grid or supply chain level. It also starts much lower down the stack: at every reciprocating pump, dosing skid and injection line, where uncontrolled pulsations cause pipe fatigue, cavitation, sensor drift and premature seal failure. Each of those failure modes eventually shows up as unplanned downtime.

SAIP is an Italian manufacturer of hydropneumatic accumulators and pulsation dampeners, based in Opera, Milan. We keep the full production

cycle in-house: mechanical machining, electron-beam welding, hydraulic and pneumatic testing, and multi-standard certification. This lets us engineer components to the specific operating envelope of a plant, rather than adapting a generic catalogue item to it.

Designed for pressure

The Model L-LAV pulsation dampener is our reference product for demanding process duties.

It reduces pulsations by up to 99.5%, works between -40°C and +280°C depending on the diaphragm

Material selection is where pulsation control succeeds or fails. Our engineering team can support and advise the customers in the diaphragm compound (six standard options) and body alloy selection against the exact fluid, pressure and temperature profile of the application, rather than defaulting to a catalogue baseline.

On aggressive process fluids, this is often the difference between a component that lasts the design life of the plant and one that becomes a recurring maintenance item.

SAIP dampeners and accumulators are in service on LNG projects in Qatar, FPSO fleets in Brazil and West Africa, refinery modernisation programmes in the Gulf region and North Africa, and offshore installations across the UAE.

EXHIBITOR | MER MARINE TECHNOLOGIES HALL: 15 | STAND: 15340

Keeping subsea complexity manageable

MER Marine Technologies explains how combining regional expertise and engineering with global technology innovation goes towards unlocking resilience beneath the ocean surface

Energy resilience is built before it is tested. It begins with a clear understanding of the seabed, confidence in asset condition and the technical capability to keep critical infrastructure working.

For MER Marine Technologies, that responsibility starts in the UAE. We combine international technology partnerships with equipment supply, rental, engineering integration and technical support to help customers turn complex marine requirements into practical solutions. Our focus extends from the UAE to the wider GCC, with further opportunities in Cyprus, Europe and Africa. Our portfolio connects seabed mapping, geophysical investigation, underwater positioning, environmental measurement, robotic inspection and data processing. These capabilities support informed decisions across offshore platforms, pipelines, subsea power cables, ports and renewable energy infrastructure, from site assessment through inspection and maintenance.

R2Sonic and R3Vox mapping systems, together with GeoAcoustics' new GeoMB, support seabed characterisation. Applied Acoustics' positioning and IVM Technologies' photogrammetry help establish where assets are and document their condition. SEAMOR Marine's ORCA ROV, Impact Subsea's seaMux and Unity, and Hydromea's optical communications expand options for robotic inspection and connected subsea instrumentation. MER brings these technologies closer to the projects that need them. Equipment selection, vessel integration, commissioning, operator training and coordinated manufacturer support help customers manage technical interfaces and lifecycle requirements.

Rental options provide flexibility as schedules and equipment need change, while local expertise can help reduce avoidable mobilisation delays. By linking regional operators with international manufacturers, we aim to strengthen supply continuity,

develop technical capability and support partnerships that endure beyond individual projects.

As AI increases electricity demand, dependable energy infrastructure becomes even more important. Quality marine data also provides a foundation for digital inspection and analytical workflows, helping operators prioritise maintenance and make better use of existing assets. At ADIPEC 2026, MER will highlight how global innovation and locally supported engineering can strengthen marine infrastructure.

Our ambition is enduring capability: clearer insight before investment, stronger support during execution and greater confidence throughout operations.

For MER, "Where Energy Opportunity Takes Shape" means connecting the right technology, people and expertise to help secure the energy systems on which progress depends.



EXHIBITOR | METALINVEST REMKO HALL: 16 | STAND: 16013

The manufacturing behind energy resilience

METALINVEST REMKO combines in-house production, flexible capacity, and digital oversight to manufacture complex steel components for critical energy and process infrastructure

Energy resilience depends on more than technology and infrastructure. It also depends on the manufacturing capacity behind them; reliable suppliers that can produce critical components to specification, handle complex requirements and deliver when projects need them.

This is where METALINVEST REMKO contributes.

For more than 24 years, we have manufactured complex steel components and equipment for demanding industrial applications, supporting customers across the energy and process sectors. Our capabilities include industrial ducting systems, pipelines, pressure vessels, expansion joints, steel structures, heat exchangers, cyclones, silos, hoppers and other custom-fabricated components.

Many of these projects involve large dimensions, complex geometries, demanding welding requirements and strict delivery schedules. Our 40,000 m² of production and outdoor areas, in-house manufacturing capabilities and experienced production team allow us to take on both individual complex components and large-scale orders.

For our customers, manufacturing capacity is only part of the equation. Visibility and control are equally important. Our ERP system and digital production tracking provide greater insight into order progress, helping our teams coordinate production more effectively while giving customers a clearer view of what is happening throughout the manufacturing process.

As energy infrastructure expands and supply chains come under increasing pressure, having a capable manufacturing partner can reduce complexity and supply chain risk. In-house production, flexible capacity and the ability to manufacture complex steel components under one roof give project partners greater control over critical parts of their supply chain.

At ADIPEC 2026, we look forward to meeting companies from the energy and process industries, exploring new partnerships and demonstrating how manufacturing capability can support more resilient projects.

Because energy resilience does not stop at the power plant, refinery or pipeline. It starts much earlier, with the people and manufacturing capabilities that make the infrastructure possible.



EXHIBITOR | SIEMENS

HALL: 3 | STAND: 3550

A unified and integrated systems approach to developing resilient infrastructure

Siemens offers automation, electrification, digitalisation and grid expertise to help energy operators improve efficiency, and accelerate decarbonisation



The Middle East faces a defining challenge: how to meet surging energy demand while strengthening resilience, accelerating decarbonisation, and leading the global energy transition. This challenge is immediate and is already unfolding.

The region is investing on an unprecedented scale and with considerable ambition. Scale alone, however, is not enough. The infrastructure being built today, from electricity grids and production facilities to hydrogen plants, must adapt to changing demand, withstand operational pressures and deliver on decarbonisation commitments. The critical question is whether these systems are sufficiently integrated to perform at scale.

Many energy companies today operate with fragmented technology strategies. Automation sits in one part of the value chain, electrification in another, while digitalisation is often an afterthought. This fragmentation creates inefficiencies, security gaps, and missed opportunities. Leading energy operators in the Middle East are taking a different approach by treating their entire operations, from upstream production to grid infrastructure, as a single integrated system.

With capabilities spanning upstream, midstream, downstream, and grid infrastructure, Siemens can integrate systems end to end. Our automation and digitalisation capabilities, combined with our electrification and grid expertise, enable a unified platform through Siemens Xcelerator, connecting technologies across energy operations.

In practice, this takes several forms. AI and digital twins optimise operations across upstream, midstream, and downstream activities. Operational Technology (OT) cybersecurity protects critical infrastructure without compromising operational agility.

Grid modernisation strengthens energy security while supporting the scale required for decarbonisation. Electrification and automation, designed as a single system from the start, help avoid costly redesigns later.

We are putting this approach to practice across the Middle East through autonomous production operations, smart grid deployments, plant design, and industrial transformation programmes.

The results include measurable efficiency gains, reduced downtime, and infrastructure that performs under pressure.

With capabilities spanning upstream, midstream, downstream, and grid infrastructure, Siemens can integrate systems end to end.

Unified strategy and integrated systems build resilience rather than individual technologies deployed in isolation. At ADIPEC 2026, we are showcasing what that looks like in practice.

EXHIBITOR | MÜLLER COAX GROUP

HALL: 13 | STAND: 13494

Reliable valve technology for energy future

Germany's **Müller Coax Group** is ready to tell ADIPEC visitors how it combines the expertise of coax, m-tech and quadax to support safe, efficient and future-ready energy infrastructure

Rising global energy demand, increasing safety requirements and the transition towards alternative energy sources are placing new demands on energy infrastructure. Reliable valve technology plays a crucial role in ensuring process stability, reducing operational risks and securing long-term energy supply.

With more than 65 years of experience, the müller coax group develops and manufactures high-performance valve solutions for demanding applications in the energy, oil and gas, hydrogen industries, as well as the chemical sector. Its three brands - coax, m-tech and quadax - offer specialised technologies for critical processes.

coax: high-pressure valve technology for hydrogen

As the inventor of coaxial valve technology, coax specialises in compact, pressure-balanced valves with high flow rates and reliable sealing performance. The coax® KX1000 is designed for hydrogen applications up to 1,000 bar. Suitable for ATEX zones 1 and 2, it supports safe and efficient operation in hydrogen refuelling stations, transportation and compressor systems.

m-tech: reliable gas filling technology

The m-tech brand specialises in high-pressure valves and customised gas filling systems for industrial and medical gases. The company's solutions combine precise gas handling with high safety standards, supporting reliable filling processes and efficient operation in demanding industrial environments.

quadax: maximum tightness under extreme conditions

Under the quadax brand, the group develops premium butterfly valves based on an innovative four-offset design. Engineered for demanding pressure and temperature conditions, quadax® valves provide high tightness and durability in applications

where it is crucial, such as energy generation, hydrogen, petrochemicals and cryogenic processes.

Three brands, one commitment to energy resilience

Together, coax, m-tech and quadax provide specialised solutions that strengthen operational safety, improve process efficiency and support the development of resilient energy infrastructure.

You can learn more about these products and how they might help your operations by visiting the müller coax group stand during ADIPEC.



EXHIBITOR | MULTILINE TECHNICAL CO

HALL: 8 | STAND: 8354

Keeping critical infrastructure running reliably

Multiline Technical Co supplies industrial equipment, technology and technical expertise to support operational continuity

As the global energy sector navigates rising demand, evolving technologies, and increasingly complex supply chains, resilience has become essential to ensuring long-term security, operational continuity, and sustainable growth. Reliable infrastructure, trusted technology partners and access to quality industrial solutions are critical to building a more resilient energy ecosystem.

Multiline Technical Co supports the energy industry by providing specialised industrial products, engineering solutions, and technical expertise across the oil and gas, power, water, petrochemical, and industrial sectors. With an established presence in the UAE and the wider GCC region, Multiline works closely with internationally recognised manufacturers to deliver solutions that meet demanding project requirements and support critical infrastructure throughout its lifecycle.

Its portfolio encompasses instrumentation, automation, electrical and industrial equipment, and specialised process solutions. These technologies help operators improve process reliability, enhance monitoring and control, protect equipment, and maintain safe and efficient operations across complex industrial facilities. By connecting customers with trusted manufacturers and technically suitable solutions, the company helps reduce procurement risks, support equipment availability, and strengthen supply chain reliability.

Resilient energy infrastructure also depends on robust electrical systems, intelligent automation, efficient process equipment, and reliable water and wastewater management. As digitalisation and artificial intelligence expand across the energy sector, the demand for dependable power, advanced control systems, and supporting infrastructure continues to grow. Multiline collaborates with its principals and customers to identify solutions that support operational efficiency, system reliability, and the evolving requirements of modern energy facilities.

Its regional presence, technical sales capabilities, and relationships with established technology providers enable Multiline to help customers identify suitable solutions for both new projects and existing installations. Recognising that resilience extends beyond equipment supply, the company emphasises responsive technical support, effective coordination, and dependable partnerships throughout project execution.

At ADIPEC 2026, Multiline looks forward to engaging with industry stakeholders, exchanging technical knowledge, and exploring opportunities to strengthen energy infrastructure across the region and beyond.

Aligned with the theme "Where Energy Opportunity Takes Shape", Multiline remains committed to connecting proven technologies with real-world industrial challenges and contributing to a more reliable, secure, and resilient energy future.



EXHIBITOR | SINOPEC

HALL: 8 | STAND: 8210

Stronger partnerships and technology needed to drive the smarter systems the world needs

Sinopec outlines how cooperation in the Middle East has created positive results and discusses where technology such as digitalisation and AI are playing a key role in its worldwide business



As global energy demand rises amid market volatility, supply chain pressures and accelerating electrification, resilience requires more than secure supply.

It requires an energy system that is diversified, efficient, digitally enabled and capable of adapting to change, says Sinopec. For more than three decades in the Middle East, the company has worked with regional partners to strengthen energy security while advancing lower-carbon development.

Partnership is central to that approach. Sinopec's cooperation with Saudi Aramco through YASREF has created a major refining platform supporting reliable fuel supply and local economic development, while Sinopec Tech Middle East in Dhahran Techno Valley provides a platform for joint R&D, technology exchange and localised innovation. Across its global operations, Sinopec also uses digital procurement and integrated

supply chain platforms to improve transparency, coordination and resilience. These partnerships combine local market knowledge with global technical capabilities, helping de-risk investment and strengthen cross-border energy cooperation.

The technology effect

Technology is equally important, says Sinopec which is developing an integrated portfolio spanning conventional energy, hydrogen, renewables and carbon management. It produces and utilises 4.3 million tonnes of hydrogen annually, is expanding wind and solar capacity, and continues to advance large-scale CCUS.

By 2025, the Qilu–Shengli CCUS project had cumulatively captured 2.05 million tonnes of CO₂, demonstrating how industrial decarbonisation can be combined with secure energy production.

In the Middle East, Sinopec's high-end oilfield equipment and steel pipe

products also support oil and gas gathering, transportation and other critical infrastructure.

Digitalisation and AI are reshaping operational resilience. Sinopec is deploying industrial AI, smart plants, digital oilfields and real-time data platforms to improve predictive maintenance, production efficiency and decision-making.

During ADIPEC 2026, Sinopec says it looks forward to sharing integrated solutions that connect secure supply, resilient infrastructure, digital intelligence and lower-carbon growth.

By combining digital intelligence with cleaner power and low-carbon technologies, the industry can capture AI's productivity benefits while addressing the additional energy requirements of digital transformation. During ADIPEC 2026, Sinopec says it looks forward to sharing integrated solutions that connect secure supply, resilient infrastructure, digital intelligence and lower-carbon growth.

Guided by its brand commitment, "Cleaner Energy, Better Life," Sinopec will continue working with partners across the Middle East to build a more secure, resilient and sustainable energy future.

EXHIBITOR | NARDI COMPRESSORI

HALL: 16 | STAND: 16605

Compressed solutions in a dynamic industry

Nardi Compressori is bringing a portfolio of breathing air, industrial gas, and CNG compressors and boosters designed for demanding energy applications to ADIPEC

Rising energy demand requires new generation plants, pipelines, storage facilities, and offshore infrastructure. Compressed air and gas are essential to many of these operations, from breathing air that safeguards personnel and inert gases used for system testing and acceptance to natural gas handling that supports fleet operations. Nardi Compressori provides a broad range of compressor products for these applications.

The company provides dependable solutions using equipment designed to meet or exceed industry standards and operate on grid power, generators, or off-grid in locations where infrastructure is limited. Its Middle East branch, supported by a worldwide dealer network, serves cross-border projects with solutions ranging from portable units to fully integrated solutions.

This year at ADIPEC, Nardi Compressori is showcasing the following products:

Nardi ONE: All-in-One Containment Fill Station

This SCBA/SCUBA fill station integrates a compressor, EN 12021 filtration, cascade storage, fill panel and two-cylinder containment cabinet. NFPA 1900:2024 certified, it provides up to 850 L/min (30 cfm) at pressures of up to 420 bar (6,000 psi). Applications include industrial fire brigades at refineries, gas plants, and offshore facilities. Five models are available.

Pacific D: Diesel High-Pressure Breathing Air Compressors

Diesel-driven breathing-air compressors designed for remote and offshore locations, capable of delivering up to 350 L/min (12.4 cfm) at 225 or 330 bar (3,200 or 4,700 psi). Applications include offshore platforms, remote wellsites, and pipeline projects. Four models are available.

Atlantic Portable High-Pressure Breathing Air Compressors

Portable electric, petrol or diesel breathing air compressors designed for marine applications, delivering up to 100 L/min (3.5 cfm) at pressures up to 330 bar (4,800 psi). Applications include dive teams and SCBA filling.

Industrial Compressors and Boosters

Units for nitrogen, helium, argon, and other non-corrosive gases, rated up to 80 bar (1,160 psi) for medium-pressure applications and 420 bar (6,000 psi) for high pressure applications. Uses include pipeline and vessel pressure testing, nitrogen purging, helium leak testing, and gas transfer.

CNG Compressors and Boosters

ATEX Zone 2-certified units for natural gas and biomethane, rated up to 350 bar (5,000 psi). Applications include fleet refuelling, biomethane projects, and on-site gas recovery. Six models are available.



EXHIBITOR | PARS DRILLING / ANADOLU ASLANI

HALL: 10 | STAND: 10810

Eye on integrated drilling and well services

Anadolu Aslani – Pars Drilling Solutions Services combines coiled tubing, high-pressure pumping, workover, wireline and specialised drilling capabilities to support a wide range of well operations

Anadolu Aslani – Pars Drilling Solutions Services provides a comprehensive portfolio of drilling and well services, backed by an extensive equipment fleet and technical expertise across coiled tubing, high-pressure pumping, workover, wireline, underground gas storage and drilling operations.

Its coiled tubing (CT) capabilities cover the full range of coil sizes, from 1/2" mini coil to 2-7/8", supported by a broad equipment base. With a fleet of four CT units and an extensive backup coil inventory, the company is equipped to maintain operational continuity, minimise Non-Productive Time (NPT) and respond to client requirements through rapid mobilisation.

High-pressure pumping is another key area of capability. The company operates a cementing fleet configured to support operations at pressures of up to 15,000 psi. This includes five high-capacity cementing units, comprising two latest-generation units and one offshore unit, as well as Gulf Spec and High Spec units equipped with RCM (Recirculating Mixer) systems. The fleet is supported by high-capacity batch mixers and bulk cement silos. Cementing capabilities include dual-pump high-spec cementing units for casing cementing, squeeze cementing and plug setting. Slurry designs are engineered for variations in temperature and pressure, complemented by mix design and laboratory services as well as casing centraliser design services.

The company's acidising services offer combined pumping power of up to 15,000 BHP and operating pressures of up to 15,000 psi. Its capabilities include the preparation of blended acid systems and proprietary high-rate/high-pressure acid application technology. High-capacity nitrogen pumping units support nitrogen and N foam services, including foam acidising and well cleanout operations. The company also provides injection testing services.

For workover operations, Anadolu Aslani – Pars Drilling Solutions Services offers comprehensive services to depths of up to 5,000 m. Its fleet of mobile workover rigs is optimised for different well types and operational requirements, with hook-load capacities ranging from 110 tonnes to 140 tonnes. Its wireline portfolio serves oil, natural gas, geothermal and Underground Gas Storage (UGGS) projects through in-house modern E-line and slickline units, complemented by international partnerships.

The company also provides specialised drilling, completion and surface operation solutions for underground gas storage projects.



EXHIBITOR | TERRANOVA INSTRUMENTS EAST

HALL: 15 | STAND: 15360

Precision technology strengthening the foundations of a resilient energy industry

Terranova Instruments combines robust measurement technologies with reliable field data to help operators and EPCs improve efficiency, reduce operational risk, and strengthen energy infrastructure



measurement solutions suitable for the critical utilities and process systems supporting modern industrial facilities and data centres.

At Terranova Instruments, we believe resilience begins with reliable industrial infrastructure and responsible supply chains.

Technology also plays a fundamental role in strengthening critical infrastructure, from power grids and energy storage systems to offshore platforms and pipelines. Digital integration, cybersecurity and advanced plant management operate at a higher system level, but their effectiveness ultimately depends on the quality and reliability of field data. Dependable instrumentation is therefore a fundamental element of resilient infrastructure.

At ADIPEC 2026, Terranova will highlight the increasing maturity, reliability and integration of its instrumentation portfolio. Its capabilities are further strengthened through cooperation with Tecnomatic Flow Elements, extending its offering in flow measurement and primary flow elements. Together, these solutions provide operators and EPCs with robust, integrated measurement technologies that can improve efficiency, reduce operational risk and support the long-term resilience of the global energy industry.

Energy resilience is increasingly defined by the ability to combine security of supply, economic sustainability and technological progress. As global energy demand continues to grow, the industry must focus not only on expanding production capacity, but also on improving efficiency, reducing waste and maintaining a balanced relationship between supply, demand and long-term investment.

A resilient energy system also requires transparent and sustainable market mechanisms capable of limiting volatility and preventing short-term speculation from undermining strategic development.

At Terranova Instruments, we believe resilience begins with reliable industrial infrastructure and responsible supply chains. Investment decisions should not be driven by price alone. Product quality, lifecycle performance, local support, ESG principles and long-term supplier reliability are increasingly becoming important factors in reducing operational and supply-chain risk.

Artificial intelligence (AI) is accelerating this transformation. While AI and data centres are creating substantial new electricity demand, AI itself can improve the efficiency of routine activities, predictive analysis and industrial data management. Terranova contributes to this evolution by supplying robust pressure, level, temperature, and flow

EXHIBITOR | PLENUM ENGINEERING AND MAINTENANCE SERVICES (PEMS)

HALL: 5 | STAND: 5230

Local expertise for critical asset reliability

Abu Dhabi-based **Plenum Engineering and Maintenance Services** combines in-house workshop expertise with on-site support to reduce downtime and dependence on overseas repair facilities

As global energy demand continues to grow, resilience depends not only on developing new infrastructure, but also on ensuring that existing critical assets remain reliable, efficient and available throughout their operating lives.

Plenum Engineering & Maintenance Services (PEMS) supports this objective by providing specialised repair, maintenance and lifecycle support for critical rotating equipment from its service centre in Abu Dhabi. Its capabilities span motors, generators, pumps and valves, with recent work also including the repair of a large industrial compressor. Combining in-house workshop expertise with on-site services, PEMS helps customers reduce equipment downtime, operating risk and dependence on overseas repair facilities.

For energy operators, the availability of critical rotating equipment can directly affect operational continuity. PEMS provides comprehensive testing and diagnostics, repair, rewinding and overhauling of LV and HV motors and generators, pump overhaul and repair, preventive and corrective maintenance, as well as on-site maintenance and shutdown support.

Its Abu Dhabi facility is equipped to service electric motors and generators up to 100 MW and 13.8 kV, alongside pumps and valves. With in-house mechanical repair machinery, dynamic balancing and advanced testing capabilities, PEMS can manage key stages of the repair process locally, supporting faster turnaround and greater control over repair quality.

This local capability becomes increasingly important as energy companies seek to strengthen supply chains and reduce exposure to logistical disruption. Effective maintenance, overhaul and refurbishment can extend equipment life, improve performance and help operators maximise the value of existing

assets while reducing the operational impact associated with equipment failure.

At ADIPEC 2026, PEMS will highlight how responsive local maintenance, technical expertise and lifecycle support can contribute to a more reliable and resilient energy ecosystem. As new energy opportunities take shape, maintaining the performance and availability of the critical infrastructure already powering industry remains equally important.



EXHIBITOR | PPG PROTECTIVE AND MARINE COATINGS

HALL: CONCOURSE | STAND: CN13

Defending infrastructure in extreme temperature

Olga Kolevatova, General Manager of the Middle East, Egypt, Turkey, and Caspian Region for **PPG**, discusses the value and effectiveness of coatings in protecting against costly corrosion

Energy assets across the Middle East face intense heat, high humidity, salt exposure and demanding process conditions. Startups, shutdowns and process fluctuations subject equipment to thermal cycling, while operators seek to maximise uptime and maintenance efficiency.

Protective coatings play important roles. Pipelines, refineries, petrochemical facilities and LNG infrastructure encounter conditions that can accelerate corrosion. For insulated equipment, moisture can reach steel, creating conditions for costly corrosion under insulation (CUI). The annual cost of corrosion in the oil and gas production industry is estimated at US\$1.372 billion, according to a NACE study.

A new generation of high-temperature CUI protection

At PPG, we are developing coating technologies around real operating conditions.

The latest evolution in protection balances temperature resistance with flexibility; repeated thermal cycling causes steel to expand and contract, stressing the coating film and creating pathways for moisture to reach the substrate. Newer modified phenolic, polyamine-cured epoxy technology is designed to maintain flexibility while delivering high-temperature performance. Our PPG HI-TEMP® portfolio provides heat-resistant protection across demanding temperature ranges and thermal cycling.

A broader operating window

Historically, asset owners often needed multiple coating technologies for cryogenic, ambient and elevated-temperature service. Newer CUI technologies help close that gap, simplifying coating specifications and maintenance programmes. PPG HI-TEMP 480 coating exemplifies this approach.

Designed for insulated assets across a broad operating window, the technology supports service from cryogenic conditions approaching -196°C (-321°F) to 250°C

(482°F), with intermittent exposure to 277°C (530°F). This allows operators to use a single coating technology across applications ranging from cryogenic processing systems to high-temperature refinery equipment.

Certain high-temperature epoxy technologies can be applied to substrates approaching 150°C (302°F), expanding options for localised maintenance where operating and safety procedures permit. For the Middle East's expanding energy infrastructure, resilience means protecting today's assets while preparing for tomorrow's demands.

Advanced protective coatings can help assets withstand demanding environmental and operating conditions, supporting longer service life, efficient maintenance, and reliable energy operations.



EXHIBITOR | TEXAS INTERNATIONAL OILFIELD TOOLS

HALL: 7 | STAND: 7510

Keeping critical oilfield operations moving through safety, quality and reliability

With focus on equipment support and regional support, **Texas International Oilfield Tools** helps operators reduce downtime, manage risks and maintain operational continuity



At Texas International Oilfield Tools (TIOT), reducing operational risk begins with three fundamentals: **safety, quality, and efficiency.** These principles guide how we **manufacture, inspect, service, and support critical oilfield equipment around the world.**

Safety is fundamental to every operation. TIOT supports customers with dependable tubular handling equipment backed by rigorous inspection, magnetic particle inspection (MPI), testing, maintenance, and recertification capabilities. By emphasising equipment integrity and proper documentation, we help customers reduce equipment-related

risk and maintain confidence in critical handling operations.

Quality protects both people and investment. Our API Q1 and ISO 9001:2015 quality management systems, combined with our inspection, MPI, load-testing, refurbishment, and manufacturing capabilities, provide customers with greater confidence in the equipment they put into service. Our objective is not simply to deliver equipment, but to provide reliable solutions capable of supporting demanding drilling, casing, and well-servicing operations.

Efficiency is increasingly dependent on supply-chain resilience. Equipment shortages, extended lead times, and

international logistics can quickly impact project schedules and operating costs. TIOT helps reduce these vulnerabilities through inventory availability, manufacturing resources, repair and refurbishment capabilities, replacement parts, and responsive technical support.

Our commitment to the Middle East is strengthened through our sister company, PetroSpark in Dammam, Saudi Arabia.

Our commitment to the Middle East is strengthened through our sister company, PetroSpark in Dammam, Saudi Arabia. This regional presence brings support closer to our customers while connecting Saudi Arabian operations with TIOT's capabilities in Houston.

Working together

Together, we are building stronger cross-border partnerships, improving responsiveness, and helping customers reduce dependence on long and vulnerable supply chains.

For Texas International, successful energy partnerships are built on more than supplying equipment. They depend on safer operations, consistent quality, greater efficiency, and dependable regional support, helping our customers protect their investments and keep operations moving.

EXHIBITOR | PROTEGO® HALL: 8 | STAND: 8910

Solutions for the evolving industry landscape

Antje Curland, Head of Marketing Communications at **PROTEGO® Group**, explains how the company draws on a 70-year legacy to offer protection, engineering, safety training across the industry

PROTEGO® has been a pioneer in flame arresters, valves, and advanced tank equipment since 1954.

Headquartered in Braunschweig, Germany, we employ more than 750 people worldwide and serve key markets including oil and gas, petroleum, chemical, pharmaceutical, and bio-energy. Beyond high-quality products, we provide R&D, engineering, system design, and safety training.

Energy outlook

Looking ahead into 2026, energy demand will continue to rise, and the industry must balance this growth with security of supply, affordability, and lower emissions.

PROTEGO® contributes by enabling the safe, low-emission handling, storage, and transportation of critical energy carriers, helping to keep infrastructure resilient while supporting ambitious climate goals and long-term energy security. Our technologies protect people, plants, and the environment, ensuring operational continuity and compliance with demanding safety and environmental standards. By improving process safety and transparency in storage and transfer operations, we help make investments in storage terminals, refineries, petrochemical plants, and emerging low-carbon projects more robust and future-proof, while supporting safe and predictable operations across the energy value chain.

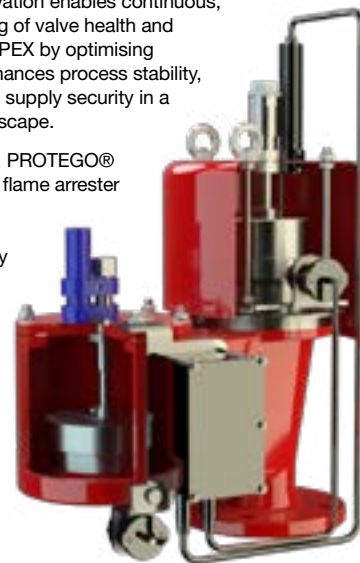
Product in focus

At ADIPEC 2026, PROTEGO® will launch its new Valve Smart sensor technology. By integrating targeted smart sensor systems, PROTEGO® valves become intelligent, connected components that enable reliable emissions and valve condition monitoring, without generating false-positive alerts.

Our intelligent valves continuously verify emission performance, prevent early relief scenarios, and help avoid unpredicted emission events, reducing product loss and supporting the safe, compliant operation of tank farms and storage networks.

They detect developing faults at an early stage, minimise unplanned maintenance, and provide auditable compliance data. This major innovation enables continuous, data-driven monitoring of valve health and emissions, reduces OPEX by optimising maintenance, and enhances process stability, thereby strengthening supply security in a changing energy landscape.

Alongside this launch, PROTEGO® continues to advance flame arrester and valve technology, delivering tailored engineering and safety concepts that help our customers operate more safely, efficiently, and sustainably in a changing energy landscape.



EXHIBITOR | QUORUM SOFTWARE HALL: 16 | STAND: 16115

The AI platform for connected energy operations

Quorum Software is transforming fragmented data and agentic AI to enable faster decisions and more resilient operations

Opportunity is accelerating across the energy sector, but capturing it will require greater resilience and sharper execution. Operators must meet growing demand reliably and sustainably, even as costs rise and uncertainty persists. Complex portfolios and leaner teams intensify the pressure. In an AI-enabled industry, faster and more confident decisions create a competitive advantage. That demands an operating model supported by integrated software that turns fragmented data into action.

A connected data foundation for every decision

At Quorum, resilience starts with a shared, trustworthy picture of the business. Our platform unites production, contracts, scheduling, financial exposure and measurement data across upstream and midstream operations. This turns isolated information into decision-ready intelligence, reduces investment risk, and gives cross-border partners a common source of truth for keeping energy flowing reliably.

Agentic AI, grounded in your operations

AI can accelerate operational decisions by transforming trusted data into timely, actionable insights. Quorum redesigns workflows around automation and AI, using agents to detect anomalies and streamline decision-making. Days of coordination become ranked, explainable recommendations—applying AI to high-value decisions while grounding it in data customers already trust.

Connecting the field to the boardroom

Our platform connects planning, production, pipelines, and storage terminals. This helps operators integrate LNG, hydrogen, and renewables into infrastructure built for a different energy mix. They gain a clearer view of how changes in one part of the system affect plans, schedules, and downstream commitments.

What we're bringing to ADIPEC 2026

At ADIPEC 2026, we look forward to sharing how a connected, agentic approach to planning, operations, and asset management can compress decision cycles. Companies that shorten that window while maintaining operational control will be better positioned to turn new energy opportunities into resilient growth.



EXHIBITOR | TOPSOE

HALL: 16 | STAND: 16231

Building greater flexibility with technologies spanning the full spectrum of fuel production

Topsoe's WSA and eREACT technologies show how fuel producers can diversify feedstocks and outputs, improve efficiency and unlock new revenue streams



WSA can offset up to 9% of total Scope 1 and 2 emissions while opening a new revenue stream through sulfuric acid sales, turning a waste stream into a commercial asset and strengthening the plant's operating economics.

Topsoe, a Danish company with more than 80 years of scientific innovation, is helping refiners and fuel producers build greater flexibility into their operations.

eREACT™ is an electrified reactor technology that replaces the combustion-driven tubular reformer with a directly electrically heated catalytic reactor system.

As the fuel and energy sector works to meet rising global demand while strengthening long-term security and resilience, diversification has become an important commercial driver.

Topsoe, a Danish company with more than 80 years of scientific innovation, is helping refiners and fuel producers build greater flexibility into their operations. Topsoe's catalysts and technologies span the full spectrum of fuel production, from conventional to renewable fuels to low-carbon and e-fuels. The evolving energy landscape will require multiple routes to fuel production, from diesel to SAF and HVO to conventional, low-carbon and green hydrogen, as well as ammonia and

methanol. Through our technology and expertise, Topsoe helps customers de-risk outcomes, diversify feedstocks and fuel outputs, and create new revenue streams as market conditions evolve. The result is a more secure, resilient global energy ecosystem – and more efficient, profitable operations.

Two Topsoe technologies highlighted at ADIPEC 2026 demonstrate what this looks like in practice.

Topsoe's WSA™ (Wet gas Sulfuric Acid) technology converts H₂S in acid gases from refineries and natural gas processing plant into sulfuric acid, while recovering around five to six times more energy than modified Claus units. For a typical 10 MTA refinery, switching to

Powered by renewable or grid electricity instead of burning natural gas or off-gas, it eliminates the combustion section, along with the flue gas fan, combustion air blower, stack, and associated heat-recovery equipment a fired reformer requires. eREACT has been demonstrated across a diverse set of feedstocks, including natural gas, biogas, hydrogen combined with captured CO₂, and other hydrocarbon streams requiring a reforming or syngas-generation step.

At ADIPEC 2026, Topsoe looks forward to showing how solutions like these can help the industry meet growing and diverse demand for fuel and chemical without compromising on efficiency, profitability or resilience.

EXHIBITOR | QYSEA TECHNOLOGY TECHNOLOGIES

HALL: 15 | STAND: 15005

Taking underwater inspection to new depths

QYSEA develops integrated underwater robotic solutions that combine mission-ready hardware, intelligent navigation, measurement tools and decision-ready data

Energy security depends not only on expanding supply, but also on the ability to inspect, protect, and maintain the infrastructure that keeps energy flowing. Across offshore operations, the integrity of platforms, pipelines, terminals and subsea connections is essential to operational continuity. Operators therefore need reliable underwater data that can reveal emerging risks before they become costly disruptions. With deployments across more than 130 countries and regions, QYSEA develops integrated underwater robotic solutions that combine mission-ready hardware, intelligent navigation, measurement tools and decision-ready data. Its compact ROV systems can reduce complex mobilisation and reliance on large crews or diver-based work for routine subsea tasks, enabling more frequent, localised inspections with lower operational exposure.

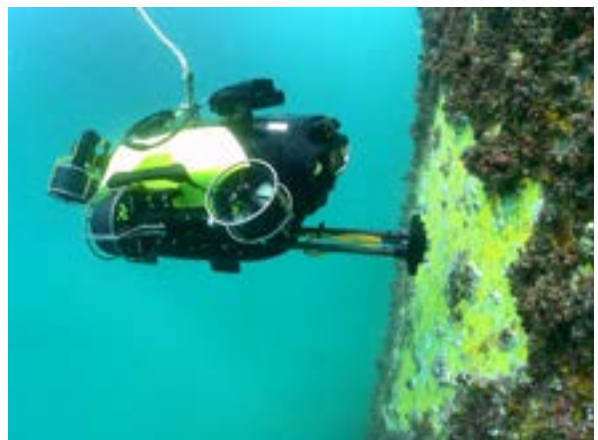
Rather than pursuing capability through size and brute force alone, QYSEA applies computational intelligence to underwater operations. The QYSEA X1 mission-class ROV uses a Dual-DVL navigation architecture to maintain stable positioning, control stand-off distance and operate predictably around complex structures and in moving water. This stability is critical for acquiring consistent, repeatable inspection data.

A modular payload ecosystem supports visual inspection, ultrasonic thickness measurement, cathodic protection measurement, sonar, cleaning and light intervention. Direct-power operation enables extended missions where continuity matters. QYSEA's software tools further transform visual, positional and depth data into structured inspection records, measurements and three-dimensional models. AI-assisted image enhancement, navigation and measurement help teams move beyond raw footage towards actionable insight for condition assessment, maintenance planning and long-term monitoring.

Resilience also requires accessible technology and stronger regional capability.

Compact systems can be transported quickly, operated by smaller teams and integrated with local service partners. This reduces logistical bottlenecks, strengthens regional response capacity and supports robust cross-border energy partnerships.

At ADIPEC 2026, QYSEA will showcase the X1 and its integrated inspection ecosystem for safer, more agile management of offshore energy infrastructure. Under the theme "Where Energy Opportunity Takes Shape," QYSEA looks forward to demonstrating how intelligent underwater robotics can turn subsea inspection into a repeatable, data-driven capability, helping operators protect critical assets, respond faster and build greater resilience below the surface.



EXHIBITOR | REMI EDELSTAHL TUBULARS LTD

HALL: 10 | STAND: 10100

The building of energy's tubular backbone

After long applying its high-precision manufacturing to energy applications, **REMI** is developing high-purity, semiconductor-grade tubes

The next phase of the energy transition will be won or lost on resilience rather than just capacity, according to Rishabh Saraf.

The Managing Director of Indian company REMI Edelstahl Tubulars says as demand climbs across both conventional and renewable systems, the infrastructure carrying that energy - namely pipelines, offshore platforms, storage, and process equipment - must be engineered to perform for decades in the harshest conditions, not merely installed and hoped for.

"That is the identity REMI has built over more than five decades," Saraf explains.

His firm manufactures high-precision stainless steel pipes and tubes engineered for extreme pressure, corrosion resistance, and long service life.

Its core strengths - high-thickness welded pipes, including wall thicknesses beyond 80mm, a capability held by only a handful of manufacturers worldwide, alongside precision instrumentation tubing tested to pressures of up to 10,000 psi - exist "precisely to de-risk critical infrastructure investment".

Saraf says: "An operator commits capital to a refinery, an offshore platform, or a cross-border pipeline...the tubular components cannot be the point of failure.

"Our approvals from ADNOC, KOC, KNPC and other national oil companies reflect the rigorous qualification our products undergo before entering these supply chains, giving partners confidence to build long-term, cross-border relationships on our capability."

REMI says the industry's AI build-out adds a new dimension to the resilience question. Data centres now demand the same uncompromising standards - ultra-clean systems, tight tolerances, dependable cooling and gas-delivery infrastructure - long applied to oil, gas and petrochemicals.

REMI's high-purity tubing, developed through its technology partnership with South Korea's WSG Corporation, is finding a "natural home" in exactly these environments, even as REMI introduces AI thoughtfully into its own operations in measured steps, "to sharpen the quality-consciousness that has always defined REMI".

Across grids, storage, offshore platforms and hydrogen-ready pipelines, the firm says its role stays constant, to supply the tubular backbone that lets these systems expand and integrate safely.

At ADIPEC, REMI will showcase its expanding 0.5mm-80mm+ wall thickness range and its progress with WSG on ultra-clean, hydrogen- and semiconductor-grade tubes to help the industry build energy systems that are "not just bigger, but built to last".



EXHIBITOR | TRE ENERGIES

HALL: 15 | STAND: 15104

Supporting the health of physical infrastructure that enables digital transformation

TRE Energies offers inspection, lifting and specialist access expertise to operators so they can protect critical assets, reduce downtime and strengthen operational resilience



As global energy demand continues to rise, the energy industry must expand capacity while ensuring that critical infrastructure remains safe, reliable and resilient throughout its operating life. At TRE Energies, we believe energy resilience starts with technical excellence that enables energy to be produced, transported and delivered.

Our services across lifting inspection, crane services, rope access, non-destructive testing, equipment rental and technical training help energy operators identify risks early, protect critical assets and maintain operational continuity. By combining specialist inspection expertise with practical field solutions, we help clients reduce

unplanned downtime, extend asset life and make better-informed decisions on maintenance and investment.

As energy infrastructure becomes more complex, technologies and services that improve visibility, integrity and reliability will be essential.

Resilient energy infrastructure also depends on robust supply chains and

reliable cross-border partnerships. Independent inspection, testing and certification provide confidence that critical equipment meets required standards before it enters or remains in service. This is particularly important across drilling rigs, offshore platforms, marine vessels, ports, fabrication yards and other infrastructure where equipment failure can have significant safety, environmental and commercial consequences.

The rapid adoption of AI presents another important opportunity and challenge for the energy sector. AI can improve predictive maintenance, asset monitoring and operational decision-making, but its growing data-centre and computing requirements are simultaneously increasing electricity demand. TRE Energies contributes by supporting the physical infrastructure that enables this digital transformation: ensuring lifting equipment, access systems and critical mechanical assets can be inspected, maintained and operated safely and reliably.

As energy infrastructure becomes more complex, technologies and services that improve visibility, integrity and reliability will be essential. Our inspection and NDT capabilities help detect defects before they become failures, while rope access enables efficient inspection and maintenance of difficult-to-access structures without unnecessary disruption to operations.

At ADIPEC 2026, we are excited to showcase practical solutions that bring together asset integrity, inspection expertise and operational efficiency. Our focus is to help the energy industry transform opportunity into resilient, safe and sustainable operations.

EXHIBITOR | RUBBERATKINS HALL: 1 | STAND: 124

Road to resilience begins with asset integrity

Rubberatkins discusses how reliable energy systems depend on infrastructure that can withstand a range of demanding operating scenarios and where the firm is engineering resilience for a secure energy future

With the continuing rise in global energy demand comes a critical challenge for the industry. It must deliver more energy while ensuring the resilience, reliability and security of the infrastructure that underpins it.

Increasing geopolitical uncertainty, evolving technology demands and growing pressure on ageing assets mean resilience is no longer simply an operational priority, it has become a strategic imperative. We believe resilience begins with asset integrity. Reliable energy systems depend on infrastructure that can withstand extreme temperatures, aggressive chemicals, high pressures and demanding operating environments. By developing high-performance elastomer and polymer solutions, we help energy operators extend equipment life, reduce maintenance requirements and minimise costly unplanned downtime.

As investment flows into new energy projects, de-risking infrastructure has become increasingly important. Whether supporting offshore oil and gas developments, geothermal operations, hydrogen projects or carbon capture initiatives, our solutions help customers improve reliability and enhance long-term project performance. Robust materials and engineering expertise play an essential role in safeguarding investments, strengthening supply chains and supporting successful international energy partnerships.

The rapid growth of AI presents both opportunities and challenges for the sector. While it is transforming operations through predictive maintenance, optimisation and data-driven decision making, it is also driving significant growth in energy consumption and infrastructure requirements. Supporting this expansion will require resilient energy systems capable of delivering dependable power at scale.

Rubberatkins contributes by providing material solutions that protect the critical assets powering industrial facilities, energy production systems and the broader infrastructure network that enables digital transformation.

"Looking ahead, we are particularly excited about the role advanced elastomer technologies can play in supporting geothermal energy, hydrogen deployment, carbon capture and offshore asset integrity," says Andy More, CEO Rubberatkins Global. "These technologies help infrastructure operate more safely, efficiently and sustainably, while contributing to the industry's broader resilience goals." The pathway to a secure energy future will require collaboration, innovation and long-term thinking.

By combining engineering expertise with material science innovation, Rubberatkins is helping energy operators strengthen critical infrastructure, improve operational reliability and build the resilient energy systems needed to meet the world's growing demand, because resilience is not just designed - it is engineered.



EXHIBITOR | RUGGED MONITORING HALL: 16 | STAND: 16547

Turning connectivity into actionable intelligence

Rugged Monitoring brings sensors, diagnostics, analytics, and lifecycle intelligence together in an integrated digital ecosystem for electrical assets

As global energy demand accelerates, resilience increasingly depends on how intelligently the industry manages the electrical infrastructure behind it. Power systems are becoming more connected, more distributed, and more critical, yet asset information often remains fragmented across individual equipment, monitoring systems, and vendor platforms. Rugged Monitoring is addressing this challenge through an integrated digital transformation ecosystem for electrical assets.

The architecture brings together intelligent sensors, online monitoring devices, connectivity, advanced diagnostics, enterprise analytics, digital asset management, and operational workflows within one scalable ecosystem. At its core is RM EYE, Rugged Monitoring's Digital Transformation Suite for electrical assets, which consolidates asset data, diagnostics, analytics and lifecycle intelligence through more than 14 integrated modules. Supporting more than 131 electrical asset types, the ecosystem is designed to provide a unified view of asset condition, health, and performance across entire electrical networks. Its OEM-agnostic architecture can integrate with existing infrastructure irrespective of asset manufacturer, make, model, or age, while also accommodating multi-vendor sensors and monitoring systems across both new and existing installations.

This interoperability is increasingly important as energy companies strengthen grids, expand generation capacity, integrate renewables and support rapidly growing loads from industries such as data centres and AI infrastructure. More infrastructure alone will not create resilience; operators also need the intelligence to understand how assets are performing, where risks are emerging and how lifecycle decisions should be prioritised. Rugged Monitoring's connected approach spans the complete monitoring chain, from sensing and real-time data acquisition to AI-enabled diagnostics, predictive analytics, digital twins, and lifecycle intelligence. Thus, creating a scalable foundation for enterprise-wide digital transformation. At ADIPEC 2026, Rugged Monitoring

will demonstrate this connected ecosystem through its Digital Experience Center, showing how organisations can unify electrical asset intelligence, strengthen reliability, and make better-informed operational and investment decisions.

Because the next generation of resilient energy infrastructure will not simply be connected. It will be understood. And that is where energy opportunity takes shape.



EXHIBITOR | UTEX INDUSTRIES

HALL: 12 | STAND: 12322

Keeping critical infrastructure running with a range of smarter sealing solutions

UTEX Industries combines tailored engineering with a broad product portfolio to support critical applications across the energy value chain in a demanding era



As global energy demand grows, resilience depends on the reliability of the equipment that produces, processes, and transports energy.

Pumps, valves, pressure control equipment, well service systems, pipelines, and offshore platforms must operate safely and consistently under demanding pressures, temperatures, and operating conditions. For more than 85 years, UTEX Industries has helped customers meet that challenge through engineered sealing solutions designed for reliability, performance and extended service life.

UTEX develops and manufactures advanced seals, packings, and components using high-performance elastomers, polymers, urethanes, composites, and braided materials. Our broad portfolio supports critical

applications throughout the energy value chain.

Our industrial sealing solutions products serve reciprocating and rotating pumps, valves, and other industrial equipment. These solutions include plunger packing, compression packing, spring-loaded packing sets, V-ring sets, and custom-engineered sealing systems. Our Well Service Packing and Core product lines support high-pressure well service, stimulation, downhole, and oilfield equipment with durable sealing technologies designed for severe operating environments.

These technologies help fortify energy infrastructure by reducing unplanned downtime, fluid loss, maintenance frequency, and premature equipment failure. Extending equipment life and improving operational reliability help customers protect capital investments

while using labour, materials, and energy more efficiently.

Supply chain resilience is equally important. UTEX combines in-house engineering, materials science, testing, and manufacturing with decades of application experience. This allows us to respond to difficult operating conditions, develop alternatives for vulnerable or obsolete components, and work directly with OEMs, service companies, and end users. Its ability to tailor materials and designs helps customers solve specific challenges rather than relying solely on standard products.

Our industrial sealing solutions products serve reciprocating and rotating pumps, valves, and other industrial equipment.

As AI and digital technologies increase power demand and expectations for operational efficiency, the physical infrastructure supporting the energy system must become even more dependable. UTEX helps strengthen that foundation by providing reliable sealing technologies across well service, oilfield, and industrial applications.

At ADIPEC 2026, we look forward to showcasing these capabilities and building new global partnerships that support a more secure and resilient energy future, where energy opportunity takes shape.

EXHIBITOR | SABTEX CORPORATION

HALL: 7 | STAND: 7610

Meet innovation in wireline and downhole tech

Sabtex Corp is combining Houston-based manufacturing, regional partnerships and advanced technology to improve operational reliability and strengthen energy supply chains across the GCC

As global energy demand rises, the pressure on operators to maintain production, minimise downtime and reduce emissions is also intensifying. For Sabtex Corp, building resilience starts at the equipment level. The company believes technological innovation can make the difference between operational continuity and costly disruption. The US-based manufacturer develops wireline and downhole equipment designed to improve reliability, extend component life and reduce unplanned downtime. Its approach focuses on strengthening operational performance while helping operators manage risks across increasingly complex energy systems.

Strengthening regional capabilities

With manufacturing based in Houston, Sabtex is expanding its presence across the GCC, including the UAE, Saudi Arabia, Qatar, Oman, Kuwait and Bahrain. Its regional strategy combines international manufacturing expertise with local integration, customisation and technical support. At ADIPEC 2026, the company will launch Masar, Arabic for pathway, a measurement-while-drilling system developed through a partnership with a Houston-based technology provider. Private-labelled for the Middle East and North Africa market, Masar comprises a pulser, directional module, twinducer and decoder, marking Sabtex's expansion into well construction technologies.

Advancing electrification and automation

Electrification is another focus of Sabtex's technology portfolio. Its ENAQA all-electric wireline unit replaces conventional diesel-powered trucks with an electric system designed to eliminate emissions at the point of operation. ENAQA's container-based configuration allows it to be deployed across trucks, offshore platforms, jack-ups and vessels without re-engineering, providing greater flexibility across different operating environments.

Sabtex will also preview a fully autonomous version of ENAQA at ADIPEC 2026. Designed for remote operation through internet and satellite connectivity, the system aims to execute pump-down and perforating sequences without personnel physically present at the unit. Although not yet commercialised, the technology could reduce human error and personnel exposure during higher-risk wireline operations. Sabtex intends to gather operator feedback at ADIPEC to support its further development.

Returning to the exhibition for its second year, Sabtex is demonstrating how advances in electrification, automation and cross-border technology partnerships can strengthen operational reliability and contribute to a more resilient energy sector.



EXHIBITOR | SBO

HALL: 3 | STAND: 3160

Precision and specialist technology in focus

Gernot Bauer, EVP of the Energy Equipment division at **SBO**, explains how combining precision manufacturing, specialist equipment and engineering knowledge can solve real operating challenges

Energy resilience depends on more than reliable supply. It also requires dependable equipment, access to critical materials and manufacturing capability - and support close to where operations take place. SBO addresses these needs through its two divisions, Precision Technology and Energy Equipment. With more than 20 locations worldwide, the group combines specialist expertise with an international network, giving customers local support backed by wider engineering and manufacturing know-how.

Strength in divisions

Precision Technology provides the materials and manufacturing capabilities required for demanding applications. Its expertise includes high-alloy and non-magnetic steels, precision subtractive manufacturing, additive manufacturing, and service and repair. For energy customers, this supports consistent quality, manufacturing flexibility and access to specialist capabilities across SBO's global network.

Energy Equipment complements this with specialist technologies for drilling and well operations. Through BICO, D-Tech, DSI and WellBoss, the division brings together drilling motors, rotary steerable systems, circulation technologies and well-completion solutions. Each business contributes focused product and application knowledge, while the wider SBO network supports customer proximity and responsiveness across markets.

Evolving with the system

Resilience also depends on being able to adapt as the energy system evolves. SBO continues to expand its capabilities and international footprint to improve customer proximity and reduce supply risk, while developing opportunities in

areas such as advanced geothermal and carbon capture and storage. For SBO, ADIPEC's theme, "Where Energy Opportunity Takes Shape," reflects the importance of turning technology and expertise into practical solutions. Our focus is on combining precision manufacturing, specialist equipment and engineering knowledge to solve real operating challenges.

ADIPEC 2026 gives us the opportunity to discuss those challenges directly with customers and partners, and show how our Precision Technology and Energy Equipment divisions can contribute to more reliable, efficient and resilient energy operations.



EXHIBITOR | VELOSI ASSET INTEGRITY LIMITED

HALL: 11 & 16 | STAND: 11044 & 16553

Turning fragmented asset data into smarter and safer decisions for clients across sectors

Velosi AIMS® brings engineering, inspection and maintenance data together to give operators a clearer view of asset risk and support smarter integrity decisions based on its 44-year legacy



operational risk and sharpen integrity decisions across strategic assets.

Smart data for smarter decisions

SARA, Velosi AIMS®'s AI assistant, brings the same principle to a single screen, providing critical asset information at a glance, faster access to risk data and greater clarity for decision-making.

Our innovation is simple, giving engineers a clearer, earlier view of risk through technology that actually works for them.

Velosi Asset Integrity Limited is a global engineering consultancy with offices across more than 86 countries and over 44 years of experience helping to keep pipelines, offshore platforms, and critical infrastructure operating safely and reliably. The company provides specialised RBI, RCM, HSE, and integrity services to clients across the nuclear, energy, power, and petrochemical sectors.

Supporting these engineering services is Velosi AIMS®, which combines engineering expertise with technology to strengthen asset integrity management. It also reflects the perspective Velosi brings to this year's ADIPEC theme, Where Energy Opportunity Takes Shape. Energy security is not

determined solely in the boardroom, but asset by asset, inspection by inspection. Energy resilience is not just built into steel and concrete; it is also shaped by the inspection schedules, corrosion data, and risk models behind them. Velosi AIMS® (formerly VAIL-Plant®) is a modular asset integrity management software solution specifically designed for the oil & gas, power, and petrochemical industries.

The platform connects engineering, inspection, and maintenance history into a single risk-based view, using RBI and RCM/FMECA methodologies. Velosi AIMS® is certified by exida for compliance with API 580 and ASME B31.8S. Across major cross-border pipeline and offshore projects, integrating Velosi AIMS® with SAP, GIS, and Envision has helped reduce

"Our innovation is simple, giving engineers a clearer, earlier view of risk through technology that actually works for them," says Ijaz Ul Karim Rao, Director at Velosi. "Decisions about where to inspect, repair, or invest should be made on evidence, not guesswork. That's what we're innovating towards: technology that makes organisations smarter and safer." At ADIPEC 2026, Velosi is showcasing what happens when fragmented integrity data from SAP/CMMS and GIS, to condition monitoring finally connects. It provides greater reliability, safer infrastructure, and budgets directed towards the areas of greatest risks.

In an industry pursuing growth without compromising asset integrity, that connected visibility can play an increasingly important role in strengthening energy security.

EXHIBITOR | SICHUAN GUANGYA HALL: 15 | STAND: 15365-1

Advancing polymer solutions for complex oilfields

Sichuan Guangya draws on more than three decades of experience to develop technologies for enhanced oil recovery, fracturing, lost-circulation control, and water management

For more than 30 years, Sichuan Guangya has specialised in product customisation and the development of new techniques to support the entire production cycle. Its innovative products are widely used across Chinese oilfields and available to international clients.

The company's functional polymer systems for chemical flooding combine enhanced oil recovery with reduced cost per barrel, addressing the challenges of inefficient development in mature oilfields and supporting sustained, economical production.

Its clean, cost-effective fracturing fluid systems combine environmental considerations with operational performance. Suitable for green fracturing operations, they support the low carbon development of oil and gas resources.

Polymer-based working fluids for severe lost-circulation control are designed to mitigate the risks associated with extreme lost circulation during drilling, reinforcing safety during drilling and completion operations.

Water-control and oil-enhancement polymer working fluids optimise the profile of blanket injection production, enabling more efficient water control and oil stabilization. They are designed to improve the performance of low-efficiency wells, and support stable, long-term oilfield output.

Together, these technologies form a portfolio spanning the development chain, including oil displacement, fracturing, lost circulation plugging, and water control. They are designed to mitigate operational risks in oil and gas production, reduce operational losses and lower development costs.

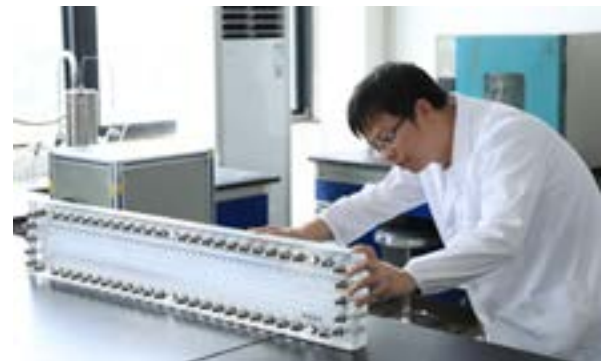
At the same time, Sichuan Guangya continues to develop oilfield polymer materials with a focus on high performance, environmental considerations, and cost-efficiency, addressing

challenges associated with complex reservoir development. Its technologies support safe and stable production, efficient performance improvement and the industry's low carbon transition, while providing technical support for sustainable industrial growth.

R&D focused on oil and gas challenges

Sichuan Guangya's technology and R&D activities are focused on developing new products and solutions for customers facing a range of oilfield challenges. Its current solutions cover chemical flooding, enhanced oil recovery (EOR), mature oilfields, fracturing fluid systems, severe lost circulation, blanket injection production, water control and oil enhancement, and complex reservoir.

Providing customers with a one-stop range of solutions remains a priority for Sichuan Guangya as it continues to develop technologies aimed at making production more economical and efficient.



EXHIBITOR | SOLUFORCE HALL: 11 | STAND: 11334

Secure connectivity when reliability is needed

Dutch company **SoluForce** explains how resilient infrastructure is critical in securing supply chains, enabling international energy cooperation, and creating investor confidence for future energy developments

The industry faces the challenge of delivering reliable, affordable energy while ensuring long-term resilience and security as global energy demand continues to grow. And meeting this challenge requires more than developing new energy sources - it demands robust infrastructure capable of supporting production, transportation, water management, and emerging low-carbon energy networks. From conventional oil and gas operations to hydrogen projects, resilient infrastructure is essential to enabling a secure and sustainable energy future. Energy resilience begins with the ability to safely and efficiently transport critical resources.

Across the world, operators are investing in production facilities, gathering systems, water injection networks, produced water management, and hydrogen value chains. These systems often operate in remote and demanding environments where reliability is paramount. Any disruption can affect production, increase costs and impact the wider energy supply chain. Ensuring long-term operational integrity is therefore fundamental to both energy security and economic growth. Balancing rising energy demand with resilience requires a focus on technologies that reduce risk throughout the lifecycle of energy assets.

Infrastructure solutions that accelerate project delivery, minimise maintenance requirements, improve operational performance and extend service life allow operators to meet growing energy needs while controlling costs.

Creating lasting value

Strengthening the resilience of infrastructure not only supports current operations but also creates the confidence needed to invest in future energy developments. Resilient infrastructure also plays a critical role in securing supply chains and enabling international energy cooperation.

Whether supporting hydrocarbon production, managing water resources or facilitating the development of hydrogen ecosystems, reliable transportation networks provide a vital link between resources, facilities, and markets. Investments in infrastructure that enhance safety, continuity, and efficiency help build stronger and more secure energy systems. As the energy sector evolves, resilience must remain a central consideration.

Through continued innovation, collaboration and investment in dependable infrastructure, the industry can meet growing global energy needs while supporting a lower-carbon future. This is where energy opportunity takes shape: in the solutions that strengthen energy security, enable sustainable growth and create lasting value for generations to come.



EXHIBITOR | VEOLIA WATER SYSTEMS GULF

HALL: 9 | STAND: 9357

Treating water as a strategic resource to drive efficiency, security and sustainable growth

Veolia Water Systems Gulf combines advanced treatment technologies, digital solutions, and lifecycle services to help operators manage complex water challenges



as reservoir pressure maintenance and water injection.

Resilience also requires flexibility. Mobile Water Services provides rapid treatment capacity when permanent infrastructure is unavailable or unexpected requirements arise. Meanwhile, Ecodisk® offers compact, energy-efficient wastewater treatment for remote and space-constrained sites, with opportunities to reuse treated water for applications such as irrigation and dust suppression.

Digitalisation adds another layer of resilience. Through Hubgrade Digital Solutions, real-time monitoring, predictive analytics and AI can help optimise water, energy and chemical consumption while identifying issues earlier.

As water scarcity intensifies and energy demand continues to grow, operators are facing increasing pressure to secure reliable water supplies, treat complex wastewater streams and maximise water reuse. In the Middle East, this challenge is significant. More than 12 million cubic metres of water are injected into upstream operations every day, making water management critical for industrial security.

Water is essential across the energy value chain, from processing and cooling to steam generation and enhanced oil recovery. At the same time, upstream energy operations generate significant volumes of produced water, which can contain oil, suspended solids, metals, bacteria and other contaminants. Treating, recovering

and safely reinjecting these streams is essential to maintaining production, protecting assets and reducing freshwater demand.

At Veolia, we see water security as an integral part of operational resilience. Our approach combines advanced treatment technologies, digital solutions, and lifecycle services to help operators manage complex water challenges.

Technologies such as membrane bioreactors, ZeeWeed®, Actiflo® and advanced chemical treatment can support the treatment, recovery, and reuse of challenging water streams. Our chemical solutions further help optimise water quality and protect assets by addressing issues such as oil-water separation, scale, bacteria, iron sulphide and other contaminants. Together, they can support the safe reuse of treated produced water for applications such

Ultimately, resilient energy systems require resilient water systems. By combining advanced technologies, chemical solutions, flexible services and digital intelligence, Veolia is helping the energy sector move from managing water as an operational challenge to treating it as a strategic resource, which is supporting business continuity, asset performance, resource security and growth.

Water is essential across the energy value chain, from processing and cooling to steam generation and enhanced oil recovery.

EXHIBITOR | STERLING THERMAL TECHNOLOGY

HALL: 8 | STAND: 8553

A roadmap to powering the AI demand era

Dr Mile Vujičić, Director of Engineering at UK firm **Sterling Thermal Technology (STT)**, discusses the role of thermal innovation in energy resilience at a time of significant growth in AI-driven power needs

Rising global energy demand is putting industrial energy systems under increasing pressure. At the same time, resilience requires more than adding new generation capacity - it also means making better use of available energy.

Industrial waste heat is one such resource. Recovering and reintegrating it can reduce primary energy demand, lower dependence on fossil fuels, and strengthen industrial energy supply. GKT's waste heat recovery technologies address this potential. ComprivAP - an industrial heat pump system based on mechanical vapour recompression (MVR) - upgrades large liquid or gaseous waste heat streams into process steam. Electrically driven compressors raise the pressure and temperature of vapour, allowing it to be reused directly in production.

While ComprivAP unlocks large single-source waste heat streams, VarioVAP consolidates multiple, even smaller, waste heat sources. Both technologies can be integrated into existing plants, improving energy efficiency while using established production infrastructure.

Real world example

At BASF's Ludwigshafen site, Germany (pictured), ComprivAP is being implemented on an exceptional scale. As EPC partner, GKT is delivering one of the world's most powerful industrial largescale heat pump systems. Using renewable electricity, the ComprivAP system will convert previously unused waste heat from a steam cracker into CO₂-free process steam. With a thermal capacity of up to 50 MW, it is designed to generate up to 500,000 metric tons of steam per year and reduce CO₂ emissions by up to 100,000 metric tons annually. Commissioning is scheduled for 2027.

Proven energy source

For GKT, de-risking starts well before installation. Available waste heat is evaluated,

followed by pre-engineering, application-specific process design, fact-based CAPEX and OPEX assessment, and finally engineering, procurement, construction, and system integration. For ADIPEC 2026, GKT is highlighting how recovering industrial waste heat can reduce primary energy demand, and strengthen the reliability of industrial energy supply.

The principle is simple: resilience is not only about securing more energy, it is also about wasting less of what is already available.



EXHIBITOR | STRAATMAN GROUP

HALL: 15 | STAND: 15028

Reliable marine systems for the energy sector

Straatman Group brings four of its specialised divisions to the show floor to share expertise across marine, offshore and energy-related applications

Energy resilience depends not only on energy production, but also on reliable equipment and systems that help keep operations safe and available, says Straatman Group.

The Dutch maritime engineering company is back in Abu Dhabi for ADIPEC 2026, where the organisation is bringing together four specialised companies with experience in marine, offshore and energy-related applications. It notes that the energy sector is continuing to develop, with established markets such as liquefied natural gas (LNG) alongside new projects involving ammonia, hydrogen and other energy carriers.

Across vessels, terminals, offshore facilities and marine construction projects, reliable equipment remains important for keeping operations running. The Straatman Group, founded in 1902, says that for it the focus is practical - namely reliable equipment, clear engineering, and support when needed.

Strength in diversity

This can be seen across the group's companies.

Straatman Mooring Systems provides mooring equipment and systems for terminals and offshore applications. Straatman SafeCom provides Ship-to-Shore (SSL) communication and emergency shut down signalling during liquid and gas transfer, including solutions that can be integrated with existing and third-party systems. Kraaijeveld Winches designs and builds custom winches for marine and offshore applications. And Straatman Dredging & Construction supplies dredging equipment and components for use on dredging vessels.

Together, the four companies cover different areas of marine equipment and technology used on vessels, at terminals and offshore facilities, and in dredging and marine construction, says Straatman Group.

Inspection, calibration, maintenance, spare parts, upgrades and retrofit solutions help to keep equipment in service and reduce unnecessary downtime. Engineering, production and testing within the group are carried out in the Netherlands, while projects and service activities take place worldwide.

At this edition of ADIPEC, Straatman Group will present its experience in mooring systems, Ship-to-Shore Link systems, winches, and dredging technology for marine and offshore applications in the energy sector.



EXHIBITOR | VICTAULIC

HALL: 7 | STAND: 7238

Accelerating infrastructure delivery through smarter engineering, prefabrication solutions

Victaulic combines mechanical pipe joining, prefabrication, and engineering expertise to help deliver critical energy infrastructure more safely and efficiently



Victaulic also works with EPC contractors during the design and planning stages. Engineering services can include stress analysis, thermal movement analysis, and 3D modelling, helping teams understand how piping systems will behave and how assemblies can be configured for more efficient fabrication, transportation, and installation.

The result is a more integrated approach to project delivery with designing piping systems with fabrication, logistics, and installation in mind rather than treating them as separate activities.

Making project delivery more predictable

Prefabrication can also contribute to supply chain resilience. Manufacturing assemblies in controlled environments can make production more predictable, while modularising systems can simplify transportation and reduce the amount of material and equipment required to complete work at the jobsite.

For major energy projects, where delays, rework and site constraints can have significant consequences, these improvements can translate into greater certainty as well as productivity.

As investment in energy infrastructure accelerates across the Middle East and beyond, resilience will increasingly depend on project delivery as well as technology. Designing for modularisation, prefabrication, and efficient installation can help owners and EPC contractors build critical infrastructure that is safer, more predictable, and capable of being delivered at scale.

Energy resilience is about more than generating and distributing power. It is also about the ability to deliver, expand, and maintain critical infrastructure safely, predictably, and at pace. This means placing greater focus on how energy facilities are constructed.

Across refineries, processing facilities, power generation, and cooling infrastructure, owners and EPC contractors are increasingly adopting modular construction and prefabrication to move more work from the jobsite into controlled manufacturing environments.

This can reduce the amount of fabrication and time required in the field, while improving consistency, quality control, and safety. It can also help projects manage increasingly demanding schedules by allowing assemblies to be manufactured in parallel with other site activities.

Mechanical pipe joining can support prefabrication by enabling pipe assemblies to be prepared off site and installed efficiently on site, without relying on extensive field welding.

Engineering for off-site construction

For Victaulic, the opportunity goes beyond the pipe-joining method itself. Mechanical pipe joining can support prefabrication by enabling pipe assemblies to be prepared off site and installed efficiently on site, without relying on extensive field welding.

EXHIBITOR | SYNECTICS

HALL: 8 | STAND: 8438

Trusted technology and intelligent analytics

The adaptive IR technology of COEX cameras by **Synectics** helps address common industrial imaging challenges

As global energy demand continues to rise, operators face increasing pressure to expand capacity while maintaining resilience, safety and security across critical infrastructure. Achieving this balance requires more than new energy production. It depends on giving operators greater visibility, stronger control and better intelligence across increasingly complex and distributed environments.

Synectics has supported some of the world's most demanding energy operations. Its COEX camera range has earned a strong reputation across the sector for reliable performance in harsh and hazardous environments, helping operators protect people, assets and operations across onshore facilities, offshore platforms and renewable energy infrastructure.

Today, Synectics is building on that heritage by combining trusted surveillance technology with intelligent analytics and advanced connectivity solutions. At ADIPEC, Synectics will showcase how operators can transform surveillance infrastructure into operational intelligence.

Adaptive IR technology helps address common industrial imaging challenges such as glare, reflective bloom, uneven illumination and loss of detail. The result is clearer, more consistent visual information, improved operational awareness and more reliable incident verification in low-light conditions. This reduces the need for manual optimisation, improves image quality and increases the amount of usable information for operators.

Synectics will also demonstrate how PPE Edge Analytics can improve workforce safety and operations. AI-driven analytics improve the speed and consistency of safety monitoring, identify visible PPE exceptions and generate structured event data to support investigations. This enables more proactive safety management across industrial sites, offshore assets and growing renewable energy portfolios.

Connectivity is another critical component of resilient infrastructure. Private 5G provides a secure and flexible architecture that enables rapid deployment or relocation of cameras and technologies, particularly in remote, temporary or evolving environments. By reducing dependence on fixed cabling, organisations can extend coverage quickly, increase deployment flexibility and maximise the value of digital infrastructure investments.

Together, COEX, Adaptive IR, PPE Edge Analytics and Private 5G help energy operators save time and costs, improve performance, solve real-world infrastructure challenges and increase the value derived from existing assets. By bringing together trusted surveillance, intelligent analytics and modern connectivity, Synectics is helping create safer, smarter and more resilient energy operations.



EXHIBITOR | TECNAR

HALL: 3 | STAND: 3153

Automating the future of pipe fabrication

Tecnar's next-generation Rotoweld systems bring greater ambition, consistency and productivity to pipe fabrication as the Middle East expands its energy infrastructure

Energy infrastructure depends on fabrication capacity. Across the Middle East, ambitious investment programmes are increasing the need for productive, reliable local pipe fabrication.

For fabrication shops and engineering, procurement and construction contractors, the challenge is to deliver more without compromising quality or making production dependent on continuously expanding the workforce. Predictable output is essential to keeping installation schedules on track and turning investment into operating assets.

Rotoweld's international success demonstrates how automated pipe welding can support this objective. Adopted by fabricators serving demanding industrial markets worldwide, Tecnar's technology brings automation into the practical realities of pipe spool production, where joint preparation, material handling and operator expertise all influence performance. In Saudi Arabia, adoption by companies including Bin Quraya, ANCC and Aramco itself illustrates the technology's relevance to the region's industrial development. These users place Rotoweld within the manufacturing ecosystem supporting energy infrastructure, connecting international welding technology with local fabrication capability.

That connection matters as regional investment increasingly emphasises domestic manufacturing and stronger supply chains. Automation helps skilled teams expand their contribution. Repeatable welding operations can be automated while people concentrate on preparation, supervision, complex applications and quality. The opportunity extends beyond welding speed to more consistent execution across the production process. At ADIPEC 2026, Tecnar is introducing the next generation of this technology: the Rotoweld 4X and Rotoweld 6X. Covering pipe outside diameters from three to 48 inches, the new generation offers PerfectPass-

iQ welding intelligence with gas metal arc welding (GMAW), submerged arc welding (SAW) and gas tungsten arc welding (GTAW). The 4X is designed for standard automated pipe fabrication. The 6X extends automation with integrated vision and capabilities including automated slip-on flange welding and cladding, addressing more of the work performed in fabrication shops. Together, these developments broaden the applications accessible to automation while preserving the importance of qualified procedures, effective workflows and skilled personnel.

For the Middle East's energy sector, resilient infrastructure requires resilient manufacturing capacity. Building on international adoption, Tecnar's next generation of Rotoweld supports a practical ambition, helping local fabricators produce more predictably and develop the capabilities tomorrow's projects will require.



EXHIBITOR | WELLTEC

HALL: 3 | STAND: 320

Redefining produced water management to improve oil field efficiency and cut costs

Welltec® is back at ADIPEC to explain the real-world impacts of its Density Activated Recovery system for mature fields, including the dramatic cost and emissions savings its technology can bring to operators



particularly advantageous. In parallel, newer or “greenfield” sites can benefit from limiting the presence of corrosive water from day one of operation, reducing scaling risk and ultimately preserving system integrity for an extended well life.

Furthermore, retaining water in the reservoir can slow the rate of pressure depletion, reducing the need for costly and energy-intensive pressure support measures - such as water injection - and their associated greenhouse gas emissions.

As fields mature, water production typically increases, intensifying the challenge.

Welltec® completed the first-ever installation of its Density Activated Recovery (DAR)™ technology in April this year - thereby initiating a groundbreaking field trial to optimise oil production while minimising produced water.

Produced water handling and processing are among the largest operating expenditures in the oil and gas industry, with a conservative estimate putting global management costs at US\$20 billion in 2026, rising to more than US\$22 billion by 2031.

DAR™ is an inflow control solution that selectively limits high-water and high-gas zones to considerably

reduce unwanted production, and the emissions associated with handling and processing. Autonomous functionality delivers optimised inflow distribution along horizontal sections and proactively reduces OPEX by eliminating diagnostics and intervention runs otherwise required during future reservoir management.

A solution for brownfields and greenfields

As fields mature, water production typically increases, intensifying the challenge. Management of higher volumes of water leads to higher energy consumption, operating costs, and emissions at a time when hydrocarbon output and revenues are declining. In this context, DAR™ becomes

Immune to conditions that drive unwanted water/gas production

DAR™ is the result of more than a decade of research, development, and testing to create a system that operates independently of fluid viscosity and velocity. The most effective way to manage excessive water is to stop producing it. In fact, dual-phase systems have been designed to suppress both water and gas inflow simultaneously, fundamentally reshaping how the industry approaches reservoir management.

You can visit Welltec® at stand 320 to learn more about Density Activated Recovery (DAR)™ and many more industry-leading solutions across completion, intervention, and downhole isolation.

EXHIBITOR | TEUFELBERGER-REDAELLI HALL: 12 | STAND: 12858

Reliable lifting solutions for a changing sector

Teufelberger-Redaelli's high-performance wire ropes support safe, reliable lifting operations across critical energy infrastructure in demanding environments

Global energy demand is growing, and the energy transition is gathering pace. Against this backdrop, safety, durability, and precision are non-negotiable. Our specialised range of wire ropes is engineered to withstand harsh conditions and deliver consistent performance, corrosion resistance, and operational reliability, where failure is not an option.

Around the world, Teufelberger-Redaelli is renowned for the development, production and supply of innovative high-performance wire ropes that perform reliably in the oil and gas, renewable energy, and subsea mining industries. "Through reliable performance under demanding operating conditions, we help to reduce the risk of downtime, minimise maintenance-related interruptions and ensure safe and efficient operation," says Christian Klingsberger, Head of Cranes and Industrial at Teufelberger-Redaelli. This directly reduces investment risks and strengthens vulnerable supply chains, particularly in sectors that rely on complex logistics and mission-critical lifting operations.

A key component of the business model is close collaboration with customers. Teufelberger-Redaelli does not see itself merely as a product supplier, but works closely with operators, contractors and plant manufacturers to understand the specific requirements of each application. Experts from product development, application engineering, and sales support projects throughout their entire life cycle.

The company's technology also plays a central role in critical energy infrastructure itself as reliable lifting solutions are indispensable for the transport, installation and maintenance of key components of offshore platforms and wind turbines. The cranes used must maintain consistent performance in harsh environments, often under extreme loads and difficult weather conditions. Breakdowns are virtually unacceptable in such projects, which involve high capital investment and tight

schedules. By ensuring the reliable operation of these lifting systems, Teufelberger-Redaelli supports the expansion, integration, and maintenance of energy facilities, which in turn facilitate cross-border energy security and international energy partnerships.

At ADIPEC 2026, we look forward to exchanging views with industry experts and discussing how innovative steel wire rope solutions can help to enhance operational safety, increase efficiency and ensure the availability of critical crane infrastructure across the global energy sector.



EXHIBITOR | TRIOL CORPORATION HALL: 15 | STAND: 15131

The journey from wellhead to resilience

Triol combines artificial lift, intelligent control and real-time monitoring to keep wells producing efficiently in challenging conditions

Energy resilience begins at the wellhead. Every barrel from an ESP, PCP, SRP or linear lift well depends on equipment that performs under unstable power, changing well conditions, and extreme climates. Triol has engineered for these conditions since 1993.

We operate across Europe, the USA, MENA, LATAM and APAC, with service teams close to the field. In-house R&D, software and manufacturing in Poland keep sourcing transparent, lead times short and spare parts available throughout the life of the equipment, which de-risks long-term field investments.

Across MENA, operators know Triol for artificial lift. Our oil production variable speed drives control both induction and permanent magnet motors, suppress harmonics to IEEE 519 levels and are built for desert, tropical and offshore environments. Our medium voltage ESP drive bypasses a failed power cell in under four milliseconds without tripping, helping sandy wells remain in production. For offshore ESP applications, we integrate the step-down transformer, drive and step-up transformer into a single factory-tested enclosure. For rod and PCP wells, our low-voltage drives combine an active rectifier for energy savings with algorithms for fluid-level control, pump-jamming elimination, and equipment diagnostics.

Our linear electrical submersible pump completes the portfolio. Designed for low- and medium-flow wells with high gas factor, viscosity and solids content, it delivers up to 900 bpd and 13,120 ft of head, while allowing sensor and cable replacement without oil pumping. At ADIPEC 2026, we will present field results from this pump in unconventional wells during the technical programme on November 4.

Visibility turns reliability into control. Our downhole monitoring and telemetry systems track pressure, temperature, vibration and insulation resistance across ESP, SRP, PCP and gas lift systems, relaying data to SCADA so operators act before failures occur.

As AI and data infrastructure add new loads to the same grids, every kilowatt saved at the well is a kilowatt available elsewhere. Precise speed control, clean power and early diagnostics extend run life, reduce workovers and cut energy consumption. This is how energy opportunity takes shape in the field.



EXHIBITOR | WESCO UAE HALL: 4 | STAND: 4410

Powering industrial efficiency through data-driven asset management

WESCO UAE outlines how it is helping to boost manufacturing excellence across a range of industries, not least energy sector businesses, to help them lessen downtime and get the most out of their assets



WESCO UAE delivers advanced solutions that help industrial organisations improve asset reliability, operational efficiency, and manufacturing performance.

Based in the United Arab Emirates, we work closely with clients across the energy, utilities, manufacturing, and process industries, supporting their journeys through maintenance excellence, and advanced industrial technologies. Our primary markets span the Middle East, where organisations are increasingly focused on maximising asset value, reducing downtime, and improving sustainability outcomes.

Growth in view

Looking ahead in 2026, we remain optimistic about the global energy market. Despite ongoing economic uncertainties, demand for reliable,

affordable, and sustainable energy continues to grow. We expect continued investment in energy infrastructure, digitalisation, decarbonisation initiatives, and industrial efficiency programmes. Asset performance and operational resilience will become even more critical as operators strive to balance production targets, cost control, and environmental commitments.

At WESCO UAE, we believe resilient energy systems are built on data-driven decision-making, proactive asset management, and workforce empowerment. Our role is to help organisations move beyond reactive maintenance by implementing intelligent asset management strategies that improve reliability, extend equipment life, and reduce operational risks. Through technology, analytics, and best-practice methodologies, we help customers create more predictable and efficient operations.

An evolving industry

Several trends are transforming the global energy industry. Artificial intelligence, predictive maintenance, the Industrial Internet of Things (IIoT), cloud-based asset management platforms, and advanced manufacturing technologies are enabling organisations to gain deeper operational insights while improving productivity and sustainability.

The integration of these technologies is helping companies make better decisions faster and achieve measurable business outcomes. ADIPEC remains one of the most important industry events for our organisation.

It provides a unique platform to engage with industry leaders, technology innovators, and customers from around the world.

This year, we are particularly looking forward to discussing the future of intelligent asset management, reliable operations, digital transformation, and the role of advanced manufacturing in creating more resilient, efficient, and sustainable energy ecosystems.

At WESCO UAE, we believe resilient energy systems are built on data-driven decision-making, proactive asset management, and workforce empowerment.

EXHIBITOR | TRIPLEFAST MIDDLE EAST HALL: 4 | STAND: 4154

Partnering local capabilities with global strength

ADIPEC show regular **TripleFast Middle East** explains how it is building resilience through quality, reliability, supply chain strength and local expertise

As global energy demand continues to rise, the industry faces a fundamental challenge. It needs to deliver reliable energy while strengthening the resilience of the infrastructure and supply chains on which it depends. For TripleFast Middle East, resilience starts with the integrity of every critical connection. Operating from its facility in Jebel Ali, Dubai, our company provides high-performance fasteners, sealing and coating solutions and precision-engineered components tailored to the demanding needs of the energy and petrochemical sectors across the Middle East. As part of the LoneStar Group, TripleFast Middle East combines the strength of a global organisation with local expertise and capabilities.

Assured supply

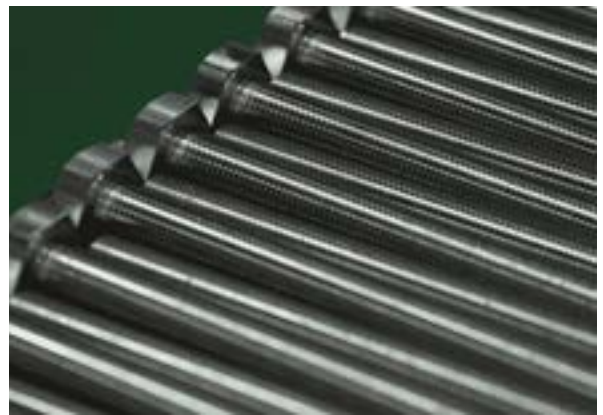
Recent years have demonstrated how vulnerable global supply chains can be to geopolitical uncertainty, market volatility and logistical disruption. Throughout these challenges, TripleFast Middle East has remained committed to maintaining continuity of supply. Our company has consistently delivered critical products without interruption, helping customers maintain project schedules and operational performance when resilience mattered most. TripleFast Middle East has built long-standing relationships with approved raw material suppliers, logistics providers and customers across the region, creating a resilient supply chain capable of responding to changing market conditions.

A key strength lies in the company's commitment to quality assurance and industry compliance. As an approved supplier to major OEMs and energy-sector customers, TripleFast Middle East operates to rigorous standards for testing, certification and material traceability. These processes help ensure that every component performs reliably in safety-critical applications where operational continuity and asset integrity are essential.

Dependability matters

As the energy industry looks to the future, the importance of dependable partners and proven engineering expertise has never been greater. At ADIPEC 2026, TripleFast Middle East will demonstrate how its specialist fastening, sealing and coating solutions help strengthen the resilience of critical energy infrastructure.

Having participated in ADIPEC for many years, our company values the opportunity to connect with customers, industry stakeholders and technology leaders from around the world. Visitors to Stand 4154 can explore how TripleFast Middle East can support your projects through quality manufacturing, technical expertise and a long-standing commitment to reliable delivery.



EXHIBITOR | UNIQUE GROUP HALL: 15 | STAND: 15012

Integrated solutions for subsea operations

Unique Group cites flexibility as critical to resilience and details how its portfolio combined with a subsea rental model gives operators the edge at an evolving time for energy businesses

With global energy demand rising and the offshore energy landscape becoming increasingly complex, resilience is no longer defined solely by how much infrastructure is built. It is defined by how intelligently assets are designed, deployed, maintained, adapted and ultimately retired.

For offshore operators, subsea complexity can create significant operational and investment risk. Access to the right technology, engineering expertise and specialist equipment - when and where required - can make the difference between a project that simply progresses, and one that performs.

This is where Unique Group brings a different proposition, namely integrated subsea capability from a single partner. With more than 650 professionals, including 200-plus specialised engineers, across 18 locations worldwide, we combine engineering, technology and field expertise across the offshore asset lifecycle. Our portfolio spans diving and life support, survey, unmanned surface vessels, load, lifting and mooring, bespoke engineering and subsea mechanical services. This enables operators to reduce interfaces, streamline mobilisation and address complex challenges through a connected delivery model.

Flexibility is equally critical to resilience. Our subsea rental model gives operators access to specialist technologies, without requiring permanent ownership. Mass Flow Excavation (MFE) systems, diamond wire saws, Seaflex buoyancy lifting bags and advanced survey equipment can be deployed for specific project requirements, helping to optimise capital expenditure, extend equipment utilisation and reduce unnecessary manufacturing and waste. In-house engineering and R&D capability adds another layer of resilience. From unmanned surface vessels and launch and recovery systems to bespoke back-deck equipment and emergency pipeline repair system (EPRS) solutions, we can engineer and adapt technologies

around real operational requirements rather than forcing projects into standardised solutions. As AI, electrification and digitalisation reshape the energy system, the physical infrastructure supporting that transition must become equally adaptable. Offshore platforms, subsea networks, pipelines and renewable-energy assets require technologies that improve visibility, access, integrity and operational efficiency.

At ADIPEC 2026, Unique Group will showcase how integrated subsea engineering and technology can help operators manage complexity, strengthen asset resilience and accelerate the energy transition, demonstrating that the future of offshore energy will depend not only on what we build, but on how intelligently we manage the entire lifecycle beneath the surface.



EXHIBITOR | SHANDONG WINTech TECHNOLOGY

HALL: 12 | STAND: 12830

Engineering thermal solutions for a more resilient and sustainable energy future

Shandong Wintech Technology puts the focus on solutions that de-risk investment, reinforce supply chains, support AI-enabled energy assets, and strengthen critical infrastructure



Shandong Wintech Technology Co., Ltd. says it is aligned with ADIPEC 2026's official theme "Where Energy Opportunity Takes Shape" as it prioritises energy resilience and long-term security to help the global energy sector meet rising demand sustainably.

Our thermal engineering solutions de-risk cross-border energy investments and reinforce vulnerable supply chains. Featuring ASME and API certified, anti-corrosion modular heat exchangers and API 661 air cooled heat exchangers, our equipment cuts unplanned outages. Full lifecycle engineering consultation and factory acceptance testing lay solid foundations for win-win cross-border energy partnerships.

Shaped for the AI era

AI expansion brings soaring power

consumption and grid strain. Wintech tackles this dual challenge with intelligent thermal management packages. Our high-efficiency cooling and waste heat recovery systems support AI-enabled energy assets, optimising power usage while safeguarding system resilience amid industry digitalisation.

Our proprietary heat transfer technology strengthens critical infrastructure, including power grids, energy storage facilities, offshore platforms, and pipelines. Our equipment integrates seamlessly into core energy systems to boost asset integrity, resist fouling and corrosion, and extend operational service life.

Solutions in the spotlight

Incorporated in 2012, Shandong Wintech Technology has evolved to be a technology-driven heat exchanger

manufacturer, high efficiency heat transfer solutions provider, and a reliable engineering partner. Our equipment, systems and services are dedicated to assisting customers in optimising the performance of their processes. The wide range of heat exchangers we design and fabricate are widely used in petrochemical, chemical, iron and steel, metallurgy, pharmaceutical, fertiliser, sugar and ethanol, shipbuilding and other fields, featuring in energy saving and emission reduction, high efficiency and practical, saving production and maintenance cost for clients.

During ADIPEC 2026, we are showcasing our high-resilience waste heat recovery and smart thermal control solutions.

During ADIPEC 2026, we are showcasing our high-resilience waste heat recovery and smart thermal control solutions. Low-maintenance and cost-efficient, these innovations enhance operational stability and reduce carbon emissions. They unlock practical opportunities for energy operators, underpinning global energy infrastructure and accelerating the shift toward secure, sustainable energy transitions.

We look forward to building resilient energy futures alongside global partners.

EXHIBITOR | VALVETIGHT

HALL: 11 | STAND: 11213

Safer valve isolation without the interruption

Valvetight's DBB-SAVER technology supports energy resilience by enabling maintenance on isolated equipment while helping avoid plant shutdowns and associated emissions

Valvetight supplies its proprietary DBB-SAVER technology, designed to enable safe work behind valves that would otherwise be passing by mitigating leakage. By achieving a zero-leak rate towards the safe work area, the technology allows maintenance and repair activities to be carried out on isolated equipment without shutting down the plant, platform or pipeline to increase boundary isolation.

The technology works by creating, maintaining, controlling and monitoring a vacuum lock in the bleed section between two valves in a conventional double block and bleed (DB&B) configuration, or in the body cavity of a single valve, such as a ball or gate valve. The vacuum lock is designed to prevent leakage past the isolation towards the safe work area.

Key advantages include a zero leak rate towards the safe work area and online monitoring of isolation integrity continuous verification of the vacuum lock, with alarms. The technology also provides online monitoring of valve leak rates and any changes with pre-alarms, as well as online registration of processed-gas leakage to support GHG emissions reporting obligations. By avoiding the need to increase boundary isolation, it can prevent plant shutdowns and the associated GHG emissions.

The DBB-SAVER vacuum control unit is connected to the relevant point or points for the period during which the isolation needs to remain in place. It can be used on systems of any line diameter, of any pressure rating, with multiple bleed points simultaneously, including mixed diameters and pressure classes. It can also be used with systems containing gaseous media, whether wet or dry, as well as liquids, liquefied gases or multiphase media.

To date, Valvetight's operational track record includes more than 1,000 deployments, more than US\$1 billion in prevented plant shutdowns, more than four million tonnes of CO₂-equivalent GHG emissions avoided. The company also reports zero accidents and a 100% success rate across projects executed where the leak rate was known in advance.

Deployment of the Valvetight DBB-SAVER provides an enhanced approach to isolating systems that rely on valves. By strengthening isolation integrity, the technology can help operators achieve ALARP conditions while allowing plants, platforms and pipelines to remain operational during maintenance or repair activities on isolated sections.



EXHIBITOR | VIVAX-METROTECH

HALL: 13 | STAND: 13493

Protecting the infrastructure beneath our feet

Ready for its ADIPEC debut, **Vivax-Metrotec** talks about its six-decade legacy as a leading developer and manufacturer of precision locating and inspection devices for utility infrastructure

Finding what lies below is essential to keeping energy moving. At ADIPEC, Vivax-Metrotech will make its first appearance with technologies designed to help operators locate buried assets, record their position, and assess the condition of critical pipelines. Headquartered in Santa Clara, California, Vivax-Metrotech has spent more than 60 years developing locating and inspection equipment for utilities and infrastructure owners worldwide.

Its portfolio serves power, gas, water and other underground networks. As energy infrastructure expands and existing assets age, the challenge is increasingly practical: how can teams plan work around buried services and decide where maintenance is needed most?

The vLoc3 RTK-Pro brings utility locating and survey-grade GNSS into one field instrument. With RTK correction data delivered through its integrated 4G LTE connection, crews can record the geographic position of a located line alongside measurements such as depth and current. Records are stored in the receiver and can be shared through VMMap Cloud for review and use in mapping workflows.

For project teams, this helps turn field observations into more useful asset information for future excavation, upgrades and repairs. For pipeline integrity teams, the vLoc3-DM addresses a different stage of the asset lifecycle. It locates the pipeline and measures low-frequency current along its route to help identify sections where coating defects may be present. Survey results can be graphed on the receiver in real time; the Walk Back function helps operators return to points of interest.

With a plug-in A-frame, teams can perform an above-ground voltage gradient (ACVG) surveys to investigate and pinpoint coating faults. These findings support more focused follow-up work and better-informed maintenance planning.

Together, the two systems reflect a wider shift towards connected, evidence-based fieldwork. Better records of buried assets can help reduce excavation risk, while condition data can help operators prioritise interventions on infrastructure that communities and industry depend on.

At its first ADIPEC, Vivax-Metrotech looks forward to meeting energy operators, pipeline owners and contractors in the Middle East, discussing their field challenges and demonstrating how more precise locating and targeted defect mapping can support resilient energy networks.



EXHIBITOR | WISON ENGINEERING

HALL: 12 | STAND: 12113

Engineering the next phase of energy growth with system flexibility to absorb change

Hengwei Liu, CTO and Head of Green Hydrogen, **Wison Engineering**, says the company combines flexible design, intelligent operations, and industrialised execution to help energy systems adapt to complex operating environment



Energy systems are facing a more complex operating environment than at any time in recent decades. Geopolitical instability is reshaping energy flows. Extreme weather is testing infrastructure. Supply-chain disruptions are challenging project execution. And the growing penetration of intermittent renewable energy is introducing new variability into industrial energy systems.

In this environment, resilience cannot simply mean avoiding disruption. A resilient energy system must be able to absorb shocks, recover quickly and adapt to changing conditions while maintaining its essential functions.

We believe the next generation of energy resilience will increasingly be engineered

through three capabilities: flexibility, intelligence and industrialisation.

Flexibility enables systems to absorb change. As renewable power, storage, electrolysis, and downstream production become increasingly interconnected, industrial plants must operate across a wide range of conditions rather than around a single design point.

Enabling adaptability

Whole-system optimisation across 8,760 hours can help determine not only what assets to build, but also how much flexibility the system needs.

Intelligence enables systems to adapt. Digital simulation, forecasting and AI-enabled control can coordinate assets and continuously optimise operations within defined engineering and safety

boundaries. In some cases, better orchestration may even reduce the need for additional physical infrastructure. Industrialisation makes resilience repeatable. Standardised architecture, modularisation, controlled variation and integrated supply chains allow learning to move from one project to the next, reducing uncertainty, improving execution and strengthening resilience at scale.

On the show floor

This thinking underpins Flex-to-X, which Wison will launch at ADIPEC 2026. It is an integrated approach that combines productised engineering with digital system optimisation across hydrogen, ammonia, methanol, eNG, SAF and carbon capture.

“Intelligence enables systems to adapt. Digital simulation, forecasting and AI-enabled control can coordinate assets and continuously optimise operations within defined engineering and safety boundaries.”

For industrial energy systems, resilience is a system property created through flexible design, intelligent operation and industrialised execution.

The resilient energy system of the future will not simply be stronger. It will be more flexible, more intelligent and easier to replicate.

EXHIBITOR | VOYIS HALL: 15 | STAND: 15231

Turning subsea data into asset intelligence

Voyis offers subsea inspection technologies that help operators understand asset conditions, anticipate maintenance needs and strengthen offshore reliability

Few companies at ADIPEC 2026 come with the history that Carl Stahl brings.

It has grown a global network of more than 70 locations across four continents since its foundation in Süssen, Germany, way back in 1880. Operating locally since 1995, Carl Stahl Middle East maintains an established presence in the UAE and Saudi Arabia. The company says that energy resilience depends on safe operations, reliable equipment and robust supply chains.

So Carl Stahl supports the ADIPEC 2026 theme, "Where Energy Opportunity Takes Shape", through engineered lifting solutions that help keep critical energy operations running safely and efficiently. Three regional facilities, spanning more than 11,665 m², provide extensive lifting equipment production and testing capabilities.

Equipment includes hydraulic presses up to 2,000 tonnes, test benches up to 500 tonnes, tensile and compression test rigs, certified test weights, and water bags. Local manufacturing, testing and inspection help reduce turnaround times, support equipment availability and minimise operational downtime, says the company.

Assured quality

Carl Stahl's quality credentials include DNV Type Approval for wire rope sling manufacturing and ISO 9001, ISO 14001 and ISO 45001 certifications.

ISO/IEC 17020, 17024 and 17025 accreditations are held by the relevant entities within their approved scopes. Regional credentials also include vendor approvals for relevant products and services with ADNOC and Saudi Aramco, alongside full LEEA membership. The firm says its regional capabilities are strengthened through partnerships with international manufacturers and brands including WireCo, Union, CASAR, Gleistein GmbH, Kito, Crosby, RUD, Straightpoint, SCHILLING, SpanSet, HADEF and PFEIFER Structures GmbH.

The product range includes steel wire ropes, high-capacity webbing slings, manual hoists and digital load-monitoring technologies for demanding offshore and onshore applications.

By combining German engineering heritage with manufacturing and inspection services in the Middle East, Carl Stahl says it helps customers maintain safe lifting operations and reliable energy infrastructure.

And its UAE and KSA operations, supported by international partners, bring technical expertise and responsive support closer to regional energy projects.



EXHIBITOR | ZHEJIANG JUNDA STEEL PIPE HALL: 16 | STAND: 16707

Advanced solutions for systems of tomorrow

Zhejiang Junda Steel Pipe specialises in high-performance seamless stainless steel and speciality alloy pipes for critical applications across energy and industrial sectors

As global energy demand continues to rise, resilience is becoming a defining requirement for the infrastructure that supports energy production, processing and transportation. For Junda, resilience starts with something fundamental: reliable materials manufactured to demanding standards and delivered with confidence.

Zhejiang Junda Steel Pipe specialises in high-performance seamless stainless steel and speciality alloy pipes for demanding applications across oil and gas, chemical processing, power generation, shipbuilding and other critical industries. Its product range includes austenitic stainless steel, duplex and super duplex stainless steel, high-nickel alloys, precision tubing and other speciality seamless products.

In today's complex global supply chains, material availability, quality and delivery can directly influence project schedules and investment outcomes. Junda addresses these challenges through integrated manufacturing and inspection capabilities designed to provide customers with greater control and confidence from raw material to finished pipe.

Junda's production environment incorporates precision cold rolling and cold drawing, automated solution heat treatment and intelligent pickling systems. Its independent inspection centre supports comprehensive verification, including ultrasonic and eddy-current testing, hydraulic pressure testing, material testing, metallographic analysis and intergranular corrosion testing.

These capabilities help provide the material foundation required for critical infrastructure operating in demanding conditions, where corrosion resistance, mechanical performance and long-term reliability are essential. By combining manufacturing expertise with technical support and international commercial capabilities, Junda aims to help customers build more dependable and resilient supply chains.

As the energy industry responds to rising power demand, digitalisation and new infrastructure requirements, the physical systems underpinning this transformation remain essential. Pipelines, processing facilities, power-generation systems and offshore infrastructure all depend on materials capable of performing reliably over the long term.

At ADIPEC 2026, Junda looks forward to connecting with energy companies, EPC contractors and industry partners to explore new opportunities for resilient, globally connected supply chains. In line with the theme "Where Energy Opportunity Takes Shape," Junda is committed to turning demanding technical requirements into dependable material solutions for the energy systems of tomorrow.



EXHIBITOR | WORLEY

HALL: 5 | STAND: 5240

Harnessing the elements of resilience in an era of change requires collaboration and technology

Patrick Tranter, Senior Vice President, Lower Gulf & Central Asia, **Worley**, explains that resilience is central to his company's Ambition 2.0 strategy, and how energy security and the energy transition are not competing priorities



The events of this year have reinforced a lesson the energy industry understands well - that resilience is not optional.

Geopolitical conflicts and concerns around the security of critical energy and shipping corridors have highlighted how interconnected the global energy system has become.

Even localised disruptions can affect global supply chains, project delivery, investment decisions, market stability, and cost of living.

Against this backdrop, ADIPEC 2026's theme, "Where Energy Opportunity Takes Shape", is particularly relevant.

Opportunity is often determined by how effectively nations and organisations adapt to change.

Meeting demand with resilience

As global energy demand continues to rise, the sector must build flexible, investable and resilient systems that can withstand disruption, and respond to changing demand patterns and supply chain pressure.

At Worley, resilience is central to our Ambition 2.0 strategy. The world needs reliable energy systems today and accelerated progress toward the systems of tomorrow.

Energy security and energy transition are not competing priorities; they are complementary objectives that must advance together.

We help customers optimise existing assets, improve operational performance, reduce emissions, and invest in future-focused energy solutions that support long-term growth.

That work depends on practical delivery. We build resilience through better front-end planning, more predictable project execution, stronger integration across partners and suppliers, and solutions that keep existing assets reliable while new infrastructure is developed.

The tech effect

Technology is also reshaping resilience. AI, data centres and digital infrastructure are increasing the need for reliable, scalable and lower-carbon power.

At the same time, AI-enabled tools, advanced analytics, automation, digital twins, and data-driven decision-making can help operators anticipate risks, improve efficiency, and respond more effectively to disruption. At ADIPEC 2026, the most important conversations will be about practical, resilient solutions, and creating the confidence to invest in them.

Through collaboration, technology, and a commitment to advancing both energy security and sustainability, we can build an energy future that is adaptable and reliable.

"At Worley, resilience is central to our Ambition 2.0 strategy. The world needs reliable energy systems today and accelerated progress toward the systems of tomorrow."

ADIPEC

venue map

Join us at ADIPEC 2026, taking place from 2–5 November in Abu Dhabi at the ADNEC Centre, offering unparalleled opportunities for collaboration, innovation and progress.

1 16 Exhibition halls

- Global Energy Club
- Low Carbon & Chemicals Zone
- Maritime & Logistics Zone
- Digitalisation Zone
- AI Zone
- Young ADIPEC
- P Press Centre
- S Speaker Room Locations
- D Delegate Coffee break – Mezzanine floor
- D Delegate lunch

Strategic Conference locations

- Momentum Theatre - Hall 2
- Exchange Theatre - Conference Room A
- Impact Theatre - Conference Room B

Technical Conference locations

- Capital Suites - Mezzanine Floor
- Excellence Theatre - Adjacent to Al Maa'rad Hall

If you need assistance on how to get to the venue, please visit:

www.adipec.com/gettingtoadipec

Exchange Theatre

- Conference Room A

Andaz Hotel

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- Conference Room B

Entrance

Car park D

P

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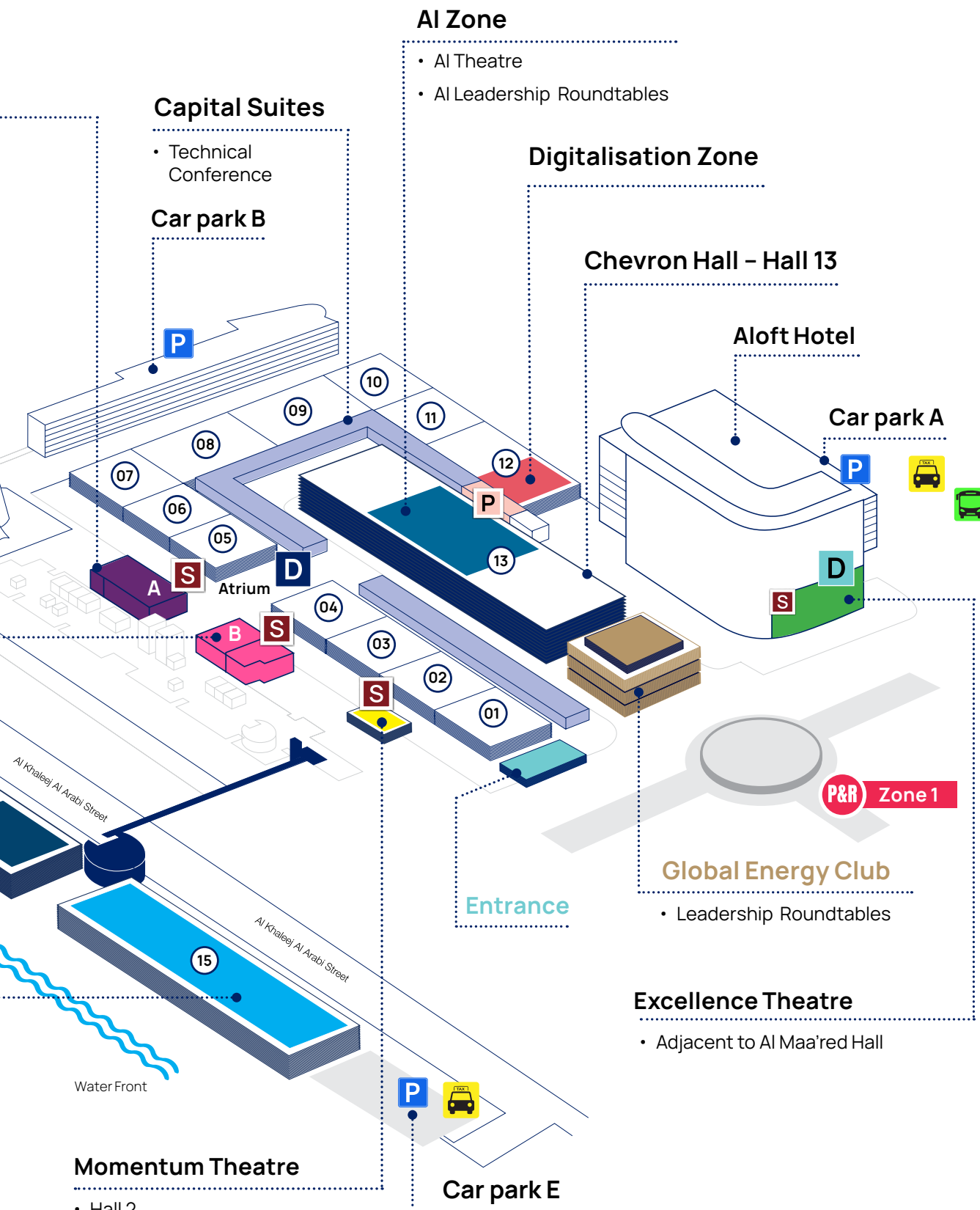
Hotel Shuttle buses



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Taxi drop off & pick up



Products & Solutions Guide

PAGE	SPONSORS	HALL	STAND
68	ABB	3	3110
70	Arab Development	5	5240
72	ASTRA	1	1116
74	ATTA Holding	12	12738
76	Bechtel	AI	AI P10
78	BGN	13	13220
80	CNOOC	9	9434
82	DMS 365	AI	AI P23
84	EY	AI	AI S3
86	GE Vernova	7	7135
88	Kent	8	8230
90	Korean National Oil Company	8	8320
92	Mazrui Energy	1	1130
94	NMDC	6	6130
96	Numou	AI	AI P34
98	Octave	12	12610
100	OMV	4	4435
102	OSC	5	5170
104	Pilko		
106	Prometheus	12	12645
108	PTTEP	5	5220
110	Rihal	AI	AI P22
112	Samsung	9	9420
114	Siemens Energy	3	3550
116	Shepherd Safety Systems	AI	AI P24
118	SNOC	Concourse	CN47
120	Tenaris	7	7130
122	TotalEnergies	Atrium	A232
124	UCC	12	12530
126	Wood Group	6 & AI	6350 & AI P33

PAGE	EXHIBITORS	HALL	STAND
128	2Roads	16	16316
128	5Blue Process Equipment	3	3152
129	Acme Engineering Prod	3	3157
130	Aize	9	9116
130	Al Fanar Gas	4	4252
132	Al Ghaith	5	5120
131	Al Mansoori Petroleum	6	6351
132	Al Salehi	15	15422
134	Alkhorayeh Petroleum	4	4170
134	Almas Group	15	15430
136	Arabian Industries	16	16597
136	Arabian Ocean Services	6	610, 614 & 620
138	Autochim	16	16022
133	Bajaj Power Equipment	16	16584
138	Barriquand	9	9233
140	Brady Corporation	15	15304
135	Bureau Veritas	9	9330
140	Cannon Artes	2	2112
142	Carl Stahl	5	530
142	CCS Dubai	15	15276
144	CETCO Energy services	2	2430
137	Chiyoda Corporation	16	16455
144	ClampOn	9	9133
146	CSE Solutions	13	13265
146	C-TORQ Marine Services	16	16077
148	Dayim	13	13013
148	Det-tronics	8	8152
139	Digital Upstream	11	11671
141	DOLPHIN GROUP	10	10212
150	Dunes Specialized Oil Field	15	15104
143	DuPont	7	7322
145	Emdad	2 & 3	2430 & 3130
147	Endress+Hauser Middle East	12	12815
150	Enerwhere Sustainable	Concourse	CN101
152	Ensign Drilling Inc	3	3252
152	Enventure Global Tech	16	16325
154	Euroblast Middle East	15	15360
154	Forum Energy Technologies	7	7330
149	Gasos	4	4410, 4420, 432, 440 & 400

PAGE	EXHIBITORS	HALL	STAND
156	GKT GmbH	12	12850
156	Global Resources Group	15	15024
158	GP50 NY	7	7517
151	GWC Energy Services	15	15220
153	Halliburton	5	5250
158	Hamriyah Free Zone Authority	12	12650
160	Handol Pumps	15	15120
160	Hobark	15	15224
162	Hubbell	8	8256
155	HYTROC	7	7255
162	IAMSEA Global Marine Services	15	15438
157	Industrial Scientific	7	7436
164	Interwell	4	4110
159	Kairos Technology	8	8936
164	KMASS	9	9350
166	KRAL	12	12856
166	LESER Middle East	13	13390
161	Mannesmamm Energy	9	9410
168	MARJAN	10	10230
168	Marlink	16	16378
170	MBK Marine Industries	15	15364
170	MCT UAE	16	16028
172	MER Marine Technologies	15	15340
172	METALINVEST REMKO	16	16014
163	MSA Safety	8	8176
174	Muller Coax	13	13494
174	Multiline Technical Co	8	8354
176	NARDI COMPRESSORI	16	16605
176	PARS ANATOLIAN DRILLING SOLUTIONS	10	10810
178	Plenum Engineering	5	5230
165	PNNplus	12	12851
167	Porto Marine Services	15	15235
178	PPG	Concourse	CN13
180	Protego	8	8910
180	Quorum Software	16	16115
182	QYSEA Tech	15	15005
169	REMBE GMBH	11	11640
182	REMI GROUP	10	10100
184	Rubberatkins	1	124
184	RUGGED MONITORING	16	16547
186	Sabtex Corp	7	7610
171	SAIP SRL	1	1451
186	SBO	3	3160
188	Sichuan Guangya Polymer Chemical	15	15365-1
173	Siemens Industrial LLC	3	3550
175	SINOPEC	8	8210
188	SOLU FORCE	11	11334
190	Sterling Thermal Technology	8	8553
190	Straatman	15	15028
192	Synectics	8	8438
192	Tecnar	3	3153
177	Terranova	15	15360
194	Teufelberger Seil	12	12858
179	TEXASINTLOILFIELD TOOLS	7	7510
181	Topsoe	16	16231
183	TRE Energies	15	15104
194	Triol Corporation	15	15131
196	TripleFast Middle East	4	4154
196	Unique Group	15	15012
185	Utex Industries	12	12322
198	Valvetight	11	11213
187	Velosi Asset Integrity	11 & 16	11044 & 16553
189	Veolia Water	9	9357
191	Victaulic	7	7238
198	Vivax	13	13493
200	Voyis	15	15231
193	Welltech	3	320
195	WESCO	4	4110
197	WINTech Technology	12	12830
199	Wilson Engineering	12	12113
201	Worley	5	5240
200	Zhejiang Junda Pipe Trading	16	16707



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