

EGYPES

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19 - 21 FEBRUARY 2024 | EGYPT INTERNATIONAL EXHIBITION CENTER

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EGYPES 2024 INAUGURATED BY PRESIDENT EL-SISI, POSITIONING EGYPT AS A MAJOR ENERGY HUB

The seventh edition of the Egypt Energy Show (EGYPES), a pivotal global gathering for energy dialogue in Africa and the Mediterranean, opened its doors with a grand inauguration by His Excellency President Abdel Fattah El-Sisi. EGYPES 2024, held under the patronage of the President himself, united a distinguished gathering of government officials, global energy leaders, and industry experts.

Under the theme “Driving Energy Transition, Security, and Decarbonisation,” EGYPES 2024 showcases Egypt’s potential as a major regional energy trading hub. The event underscores the country’s stable investment climate and welcoming open-door policies, making it an attractive destination for international businesses.

During the inauguration, President El Sisi highlighted Egypt’s remarkable achievements in boosting the energy transition as well as the role that financing plays as a catalyst for change and a key enabler for carrying out the necessary reforms in the nation’s energy sector.

President El-Sisi underscored the multifaceted challenges confronting Egypt, ranging from the economic ramifications of the COVID-19 pandemic to the geopolitical complexities stemming from the global crisis and the instability along Egypt’s borders. Highlighting the magnitude of opportunities that arise from a full spectrum energy ecosystem, the EGYPES 2024 Opening Ceremony inspired avenues



for global collaboration and ambitious action. “While navigating through these challenges, the Egyptian government remains steadfast in meeting its commitments to

petroleum companies, development partners, and financial institutions,” affirmed the president.

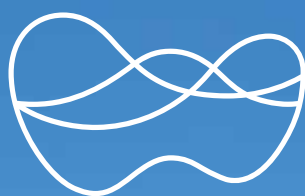
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While navigating through these challenges, the Egyptian government remains steadfast in meeting its commitments to petroleum companies, development partners, and financial institutions.

His Excellency President
Abdel Fattah El-Sisi
President of the Arab Republic of Egypt





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From our first steps producing oil in the Gulf of Suez to our
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that Egypt needs. To power homes. To meet the rising demand
of the Egyptian economy. To provide a bright future for Egypt.

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The ExxonMobil logo is positioned in the top right corner of the image. It consists of the word "Exxon" in a white, sans-serif font, followed by the word "Mobil" in a similar font, with a stylized flame icon integrated between the two words. The background of the entire image is a photograph of an offshore oil rig at sea, with a large yellow crane in the foreground and another rig visible in the distance under a blue sky with light clouds.

ExxonMobil

**Bringing ExxonMobil
upstream expertise to Egypt**

EGYPES 2024: DRIVING ENERGY TRANSITION, SECURITY AND DECARBONISATION

CONTINUED FROM PAGE 1 ➔

President El-Sisi raised concerns about whether international financial institutions, observing Egypt's efforts and achievements, are prepared to offer low-cost financing to bolster the implementation of such commitments and plans.

He emphasised that this concern extends beyond Egypt to encompass the entirety of Africa, underscoring the repercussions for countries with modest economies if they fail to secure the necessary funding.



We view the EGPES conference and platform as a way to support cooperation and integration to build a better future for the next generations.

His Excellency Tarek El Molla

Minister of Petroleum and Mineral Resources
Arab Republic of Egypt

The president referenced the \$100 billion pledge made by developed countries during the 2015 Paris Climate Conference (COP21) to assist developing economies in achieving their climate action objectives.

He noted that critical action is essential by all parties to deliver a resilient energy future.

President El-Sisi further praised Africa as a treasure trove for the development of renewable energy, emphasising how financing the continent's energy transition could unlock unlimited resources for communities in the region and around the world. "Africa has immense renewable energy capacity which can generate thousands of megawatts [in electric power]."

In his opening speech, His Excellency Minister of Petroleum and Mineral Resources Tarek El Molla stated that this edition of EGPES focuses on energy challenges that all Africans face. "We view the EGPES conference and platform as a way to support cooperation and integration to build a better future for the next generations," said El Molla. "This year's EGPES conference is being held in the midst of a series of regional and global challenges, especially the phenomenon of climate change that threatens the future of sustainable development, particularly with its increasing negative effects on economic activity."

He further expanded on the economic significance of petroleum in ensuring supplies and fulfilling the needs of all Egyptians, stating, "The oil and gas sector plays a crucial role in securing energy sources in Egypt comprehensively. Beyond meeting the ongoing demands of the local market and development projects for petroleum products and natural gas, the sector is actively pursuing an integrated strategy to curtail emissions, thereby fostering the emergence of new success stories."

Stressing the petroleum sector's tireless efforts to reduce emissions, he said, "The oil and gas sector's efforts to reduce emissions were not the result of current circumstances, but rather were the result of a comprehensive future vision and strategy launched by the sector since 2016 as part of the sector development and modernisation project."

Representing the esteemed organiser of EGPES 2024, the inauguration witnessed a speech of Christopher Hudson, President of dmg events, offering an excited audience a warm welcome to this pivotal occasion declaring, "This year I am proud to bring the most ambitious Egypt Energy Show to date."

"Advancing energy transition, securing supply, and decarbonising our industry are the essence of this conference. Innovating new partnerships to support economic growth and progress, increasing supply and demand, we strive for a balance that requires collective action to foster fruitful collaboration across the industry to accelerate the energy transition, unprecedented in its scale," Hudson said. "We indeed have indispensable energy sources, and there are also new energies such as green hydrogen and innovations in this field, which are crucial for achieving this transformation and progress in the energy sector. Egypt plays an active and vital role as a platform and catalyst for change, innovation, and investment. Together, we work to achieve and secure a sustainable energy future."

The opening ceremony featured a panel discussion between Minister El Molla; Ditte Juul Jørgensen, Director General for Energy of the European Commission; Haitham Al Ghaiss, Secretary General of OPEC; and Guangzhe Chen, Vice President for Infrastructure at the World Bank.

During the panel, El Molla stated that Egypt had chosen early on to embark on the energy transition journey, highlighting the country's commitment to all the decisions and outcomes of all COP conferences.



El Molla also talked about how the surrounding challenges push the country's budget to achieve its goals, highlighting the role of the private sector and funds in securing finances needed for a safe, just energy transition.

Jørgensen went on to discuss how to support and accelerate the transition, saying "We see Egypt as a key strategic partner" in the energy transition, pointing out that in order to "achieve that, we need to make significant investments." Additionally, she explained, "We need to work closely together to bring the private sector to make investments."

Meanwhile, Al Ghais talked about the need for fossil fuels in the future, highlighting that the world will need more energy due to the higher population, which will require all energy forms to be included in the future energy mix, stating that "We need to continue to invest in existing energies". Al Ghais



On the other side, Chen focused on the modernisation of the energy grid as well as its

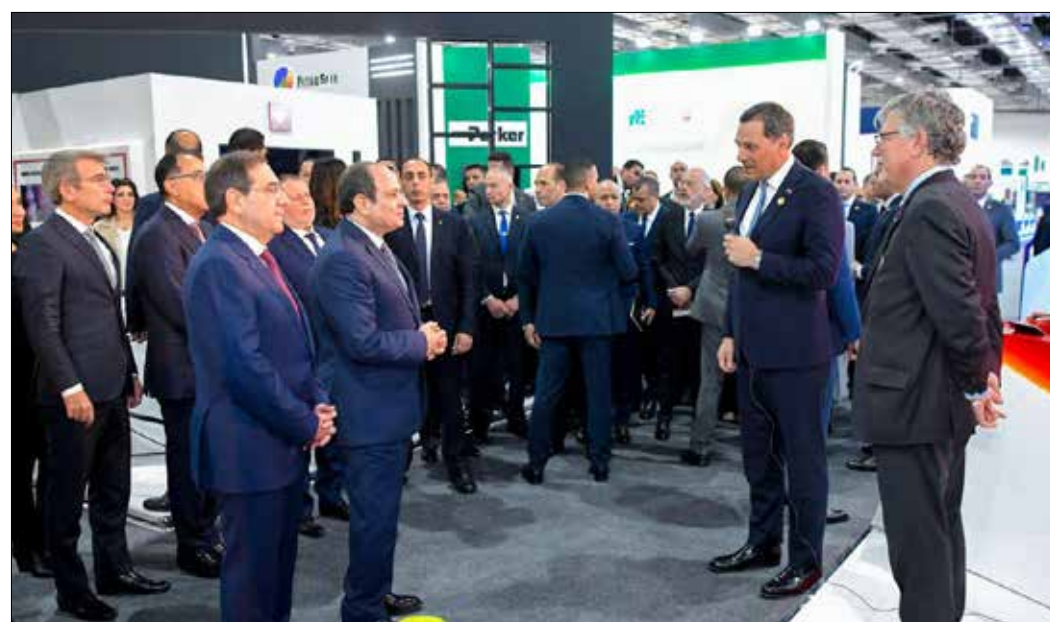
Al Ghais continued to emphasise the importance of technology for energy transition. "We believe in the important role that technology will have to play in the future."

El Molla closed the panel discussion by highlighting the importance of supporting the African continent in pushing for a just energy transition.

Hosted at the Egypt International Exhibition Center, EGYPES 2024 has evolved into a more inclusive platform for the energy sector, offering a rich variety of exhibitors that fairly represent the diversity of the energy mix. This also includes the participation of nine national oil companies (NOCs), 17 international oil companies (IOCs) and international energy companies, in addition to 17 international technology and service providers; engineering procurement and construction (EPC) companies.

Energy heavyweights also convened at EGYPES 2024, including leaders from major international organisations like the Organization of the Petroleum Exporting Countries (OPEC), the African Petroleum Producers Association (APPO), the European Commission, the World Bank, the Organisation Méditerranéenne de l'Energie et du Climate (OMEC), the East Mediterranean Gas Forum (EMGF), the Union for the Mediterranean (UfM), and the Organization of Arab Petroleum Exporting Countries (OAPEC).

EGYPES 2024 official partners and associations include Camera di Commercio Italiana per l'Egitto, the European Association of Geoscientists and Engineers (EAGE), the International Association of Oil & Gas Producers (IOGP), and the US Chamber of Commerce.



further stated that "The last thing we want is for people to [associate] transition with higher costs."

accessibility and affordability. Chen highlighted that "Energy transition access is one of the [major] challenges we face."



CONFERENCE SESSIONS

Tuesday 20 February

STRATEGIC
CONFERENCE

10:30 – 11:15

Downstream decarbonisation and circularity – going full circle

11:15 – 12:00

Future ready business and operating models

13:30 – 14:15

Advancing the oil and gas methane pledge and zero routine flaring by 2030

14:15 – 15:00

Technology and innovation critical enablers of strategic and climate change

15:00 – 15:45

Shaping Egypt's energy future

Tuesday 20 February

SUSTAINABILITY IN
ENERGY CONFERENCE

10:00 – 10:10

Driving the Global Sustainability Agenda Through Collaborative Actions

10:10 – 10:50

The Evolution of Natural Gas and LNG

10:50 – 11:30

Shaping the Future of Energy Innovation

11:30 – 12:10

Accelerating Net-Zero Targets through ESG Compliance

12:10 – 12:50

Unleashing the Potential of Green Hydrogen and Green Ammonia

Tuesday 20 February

SUSTAINABILITY IN
ENERGY CONFERENCE

13:30 – 14:00

Egypt's Roadmap to Increasing Green Energy and Emission Reduction Targets

14:00 – 14:30

Empowering the Digital Transformation for a Clean Energy Future

14:30 – 15:00

Decarbonising Upstream Oil and Gas Operations

15:00 – 15:30

Navigating a Sustainable Future in the Maritime Sector

15:30 – 16:00

Building a Low Carbon Downstream Sector

16:00 – 16:30

Increasing the Adoption of Renewable Energy in the Energy Mix

Wednesday 21 February

FINANCE & INVESTMENT
IN ENERGY CONFERENCE

10:00 – 10:20

Industrialisation and Localisation Policies for Egypt's Clean Energy Transition

10:20 – 11:00

Creating and Investing in a Carbon Capture Roadmap

11:00 – 11:40

Allocating Trillion Dollars Globally to Achieve Net-Zero by 2050

11:40 – 12:20

From Greenwashing to Green Valuation: Standardising ESG Reporting

13:30 – 14:10

Establishing an East Mediterranean Natural Gas Hub

14:10 – 14:50

M&A Outlook in North Africa & East Mediterranean

14:50 – 15:30

Scaling up Green Hydrogen Production, Infrastructure Development and Deployment

15:30 – 16:10

Bridging the Energy Efficiency Financing Gap

Tuesday 20 February

AFRICAN DIALOGUE
CONFERENCE

10:00 – 10:10

Africa's Climate Strategies Post-COP28

10:10 – 10:20

The Importance of Fossil Fuels in Africa's Just Energy Transition

10:20 – 11:00

Navigating Africa's Energy Dilemma

11:00 – 11:40

Evaluating Investment Opportunities and Strategies for Africa's Natural Gas Market

11:40 – 12:20

Leveraging Africa's Natural Resources for Global and Domestic Energy Security

13:30 – 14:10

Policy and Regulatory Frameworks for Africa's Energy Transition

14:10 – 14:50

Energy Infrastructure Development in Rural Africa

14:50 – 15:30

Financing Clean Energy in Africa

Wednesday 21 February

EQUALITY IN ENERGY
CONFERENCE

10:00 – 10:10

Advancing Gender Equality in the Energy Sector: Tackling Sociocultural Barriers

10:10 – 10:20

Reinventing the Energy Workforce of Tomorrow

10:20 – 11:00

Empowering a Net-Zero Ready Workforce – Rethinking Talent Development

11:00 – 11:40

The Role of HR in the Evolving Energy Landscape

11:40 – 12:20

Redefining Success: Millennial and Gen Z Perspectives on Careers in Energy

12:20 – 13:00

Fostering a Culture of Equality and Gender Diversity in the Energy Industry



EGYPES
STRATEGIC
CONFERENCE

MONDAY - TUESDAY
19 - 20 FEBRUARY
2024



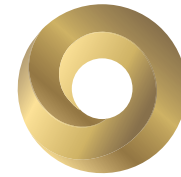
MINISTERS, CEOS AND INTERNATIONAL THOUGHT LEADERS IN ENERGY

 HE Tarek El Molla Minister of Petroleum and Mineral Resources Arab Republic of Egypt	 HE George Papanastasiou Minister of Energy, Commerce and Industry Cyprus	 HE Hayan Abdul Ghani Abdul Zahra Deputy Prime Minister and Minister of Oil Republic of Iraq	 Song Yu Executive Chairman United Energy Group (UEG)	 John Ardill Vice President Global Exploration ExxonMobil	 Ibrahim Abdelqader Mekki Mahgoub President and Chairman Egyptian Petrochemicals Holding Company (ECHM)
 HE Pedro Rafael Tellechea Ruiz Minister of Popular Power for Petroleum Bolivarian Republic of Venezuela and President Petroleros de Venezuela (PDVSA)	 HE Antonio Oburu Ondo Minister of Mines and Hydrocarbons Equatorial Guinea	 HE Dr. Walid Fayad Minister of Energy and Water Lebanon	 Jean Sentenac President and CEO Axens	 Mathios Rigas CEO Energean	 Jean-Philippe Torres Senior Vice President Africa TotalEnergies
 HE Francisco da Costa Monteiro Minister of Petroleum and Mineral Resources Democratic Republic of Timor-Leste	 Alexandra Sdoukou Deputy Minister for Environment and Energy Greece	 Hon Judith Kapinga Deputy Minister Ministry of Energy Tanzania	 Antonio Pietri CEO AspenTech	 Geoff Probert COO Capricorn Energy	 Alessandro Puliti CEO Saipem
 HE Dr. Amani Abou-Zeid Commissioner for Infrastructure, Energy & Digitalisation African Union	 Ditte Juul Jørgensen Director General for Energy European Commission	 HE Haitham Al Ghais Secretary General Organization of the Petroleum Exporting Countries (OPEC)	 Adriano Mongini CEO Azule Energy	 Eng Dragoș Roibu Chief of Staff Ministry of Energy, Romania	 Dr. Mustapha Hamid CEO Ghana National Petroleum Authority and President African Refiners & Distributors Association (ARDA)
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 Dr. Eng. Magdy Galal Chairman Egyptian Natural Gas Holding Company (EGAS)	 Eng. Bader Saeed Al Lamki Chief Executive Officer ADNOC Distribution	 Clay Neff President Chevron International Exploration and Production	 Brad Boyd Senior Vice President Corporate Resources Methanex Corporation	 Luca Vignati Upstream Director eni	 Eleonor Kramarz Global Head of Energy Transition Consulting S&P Global
 Stefano Venier Chief Executive Officer Snam	 Eugene Okpara Executive Vice President Exploration, Strategy & Portfolio Shell	 Guangzhe Chen Vice President for Infrastructure The World Bank	 John Defferio Former Emerging Markets Editor CNBC Professor of Business NYU Abu Dhabi	 Eithne Treanor Presenter EGYPES 2024	

STRATEGIC CONFERENCE PROGRAMME AGENDA

TUESDAY 20 FEBRUARY	Downstream decarbonisation and circularity - going full circle	Future ready business and operating models	Advancing the oil and gas methane pledge and zero routine flaring by 2030	Technology and innovation critical enablers of strategic and climate change	Shaping Egypt's energy future
	10:30 - 11:15	11:15 - 12:00	13:30 - 14:15	14:15 - 15:00	15:00 - 15:45

BALANCING ENERGY SECURITY, AFFORDABILITY, AND SUSTAINABILITY: KEY FOCUS AT EGYPES 2024



EGYPES
STRATEGIC
CONFERENCE

Energy transition takes center stage at EGYPES 2024, as global aspirations meet practical realities. Under the theme “Driving Energy Transition, Security, and Decarbonization,” the event kicked off on Monday with a strategic conference tackling the complex challenge of balancing ambitious transition goals with growing energy demand and development needs for a rising global population.

“We’re all focused on the future of energy, and the transition from fossil fuels to green alternatives is paramount,” declared Tarek El Molla, Egypt’s Minister of Petroleum and Mineral Resources. However, he cautioned at a panel titled “Industry response – decarbonisation and energy transition actions,” one of the key sessions at EGYPES 2024, that “delivering affordable green energy to the market is a very long journey, requiring careful planning and development from the ground up.”

He underscored the importance of developing energy markets in preparation for producing a green energy alternative and keeping a parallel



path in order to make sure energy investments will not backtrack.

The Egyptian minister elaborated that Egypt has good potentials for the green hydrogen industry, referring to several deals that have been signed in this field.



“

We need to look for the future and the energy makes the future, so we have to accelerate the energy transition.

Houda Ben Jannet

General Director, Organisation Méditerranéenne de l’Energie et du Climate (OMEC)



He, however, highlighted the important role of the private sector in realising Egypt's green energy aspirations.

The minister added that "Egypt's experience in promoting natural gas as a better choice is a model that can be implemented in African countries that have similar capabilities, challenges and priorities like Egypt."

Hayan Abdul Ghani Abdul Zahra, Deputy Prime Minister and Minister of Oil in Iraq shed light on his country's endeavours to reduce carbon emissions.

"In five years, Iraq will reach zero level of burning gas till fully utilising it in generating electricity," he told the same session, adding that the two-phase NGL project in the city of Basra, succeeded in stopping the burning of 400 million cubic meters of gas.

The Iraqi minister highlighted an integrated project is being carried out with TotalEnergy to increase natural gas production and to stop the gas burning in five oil fields, and therefore benefiting from the project in producing renewable energy.

Haitham Al Ghais, Secretary General the Organization of the Petroleum Exporting Countries (OPEC) hailed the Iraqi experience as one of the OPEC successful stories.

The OPEC's official affirmed the importance of investing in gas and oil in the long run in a responsible way along with reaching decarbonisation and improving energy efficiency and preserving the environment.

In another panel under the tile, Chaing green, clean and renewable energies, Nasser Kamel, Secretary General of Union for the Mediterranean (UfM), explained that the region is facing huge geopolitical and economic challenges though rich with potential in terms of renewal energy.

The disruption of oil supply due to the rising tensions in the Middle East, war in Gaza, and tensions in the Red Sea are the main obstacles to generating renewable energy, Kamel said adding that "the region can solve many challenges of energy but need more geopolitical stability."

However, he still sees that the region has a preference in terms of the cost of producing renewables when it comes to promoting joint projects with Europe.

Houda Ben Jannet, General Director, Organisation Méditerranéenne de l'Energie et du Climat (OMEC), agreed that the region is rich with the best resources of renewables but needed to be put in right frames.

"We need to look for the future and the energy makes the future, so we have to accelerate the energy transition," she said.



The conference has slated to explore six key themes: Pushing Decarbonisation and Energy Transition as an Industry Commitment, Driving Climate-Centric Fossil Fuels for a Smooth Energy Transition, Transforming Future Economies and Societies - Are We in a Poly or Permaworld?, Business and Operating Models of Future Energy Systems, Energy Security and Affordability Today Versus Net-Zero by 2050 and The Green, Clean, and Renewable Energy Conundrum.

Through a series of keynote addresses, interactive panel discussions and interviews, the EGPES Strategic Conference has offered thought leadership on future energy strategies and a deep dive into the industry issues at the top of government and organisational agendas.

Monday's agenda covered six panels that delved into the industry issues spanning into Industry response - decarbonisation and energy transition actions, Chasing green, clean and renewable energies, Securing sustainable, affordable energy for all, Championing low carbon solutions and infrastructure, Shaping a pragmatic and realistic energy future and The energy trilemma and the continued importance of fossil fuels.

The seventh annual EGPES Strategic Conference brought together key players in the energy and related industries to navigate the complex challenges and opportunities shaping the sector's future. This year's theme, "Driving Energy Transition, Security, and Decarbonization," highlighted the urgent need for a lower-carbon, high-growth path amidst a dynamic global landscape.

Despite increasing geopolitical tensions and multiple crises impacting countries worldwide, the oil, gas, and energy industry continues to demonstrate resilience. From rising inflation and currency devaluation to recession, energy poverty, and escalating costs, global economies and populations face significant hurdles. Climate change further complicates the picture, with extreme weather events like wildfires, storms, floods, and droughts presenting additional challenges.

In the face of these interconnected crises, the need for climate resilience and sustainable development strategies has never been more critical. EGPES 2024 emphasized the crucial role of bold government leadership, innovative thinkers, and cross-industry collaboration in driving solutions.

Decarbonization, methane reduction, emissions abatement, and energy efficiency are top priorities at both strategic and technical levels, as the industry races to meet growing demands for low-carbon energy systems. Building on commitments established at COP27 and looking towards COP28, EGPES showcased how the industry is actively transforming business models and driving innovative agendas to decarbonize oil and gas value chains. These critical steps are translating climate pledges into concrete actions, unlocking the vast potential of a responsible and just energy transition.

ENGINEERING THE FUTURE: UNVEILING TOMORROW'S ENERGY TECHNOLOGIES



Under the theme of “Driving Energy Transition, Security and Decarbonisation,” the Egypt Energy Show’s Technical Conference this year featured a rich variety of sessions, showcasing the latest innovations, cutting-edge technologies, and a heavy dose of extreme engineering.

LNG Technology, Innovation

During a session which dealt with gas and liquefied natural gas (LNG) technology and innovation, Mariano Mercadante, CEO of HubZeroNet SRL reviewed the objectives of HubZeroNet as a platform that facilitates developing non-traditional fuels for transport by promoting the connection between supply and demand.

In this same session, Petroleum Engineer Mennatullah Ali, from the American University in Cairo (AUC), discussed the challenges and opportunities in the field of carbon dioxide utilisation and petroleum engineering.

“The most efficient way to reduce carbon dioxide emissions is to reduce fossil fuel consumption or enhanced oil recovery,” said Ali.

In the same session, Abdallah Sayed El-Ghabawy, Lecturer at Alexandria University, reviewed the technology of absorbed natural gas (ANG) as a means of storage and to be used in vehicles and other energy uses.

“Over 1 trillion cubic feet of gas is being flared each year and regulations are being put in place to stop flaring,” said El Ghabawy. He added that ANG has the potential to replace CNG and LNG storage in vehicles.

Drilling Technology

In a session titled “Drilling Technologies and Solutions”, Ahmed Ismail, Drilling Engineering Team Leader at Dragon Oil introduced a case history in Egypt in which he explained the power of augmented reality (AR) and how it revolutionises subsea installation in the Gulf of Suez.

As part of the same session, Abdul Mushawwir bin Mohamed Khalil, Business Support & Technical Manager at MIT Technologies, presented a paper titled “Intelligent Downhole Circulation Tool: A Versatile

Approach for Risk Mitigation in Well Exploration and Development”.

Creating Diversity, Change Management

In a session titled “Creating Diversity and Change Management”, Alla Levadnaya, Managing Director at Growth Associates UK Limited, focused on Coaching as an enabler of new leadership for a changing energy environment.

“Coaching is an accelerator of individual development as core competencies required are constantly evolving,” stated Levandnaya.

During the same session, Passant Elgheriany, Projects HSE Engineer at Petrojet, reviewed the health, safety, and environment (HSE) capacity-building programme as an example for improving the process safety competency and enhancing calibres for change inside the Egyptian oil and gas sector.

“The primary objective is to identify individuals who have the potential to bring positive changes in their respective domains and become effective,” said Elgheriany.

Moreover, Nora Mashhour, Human Resources Department Head at ANOPC, talked about enhancing workplace learning through technology, e-learning, virtual development, and knowledge transfer.

Development of Unconventional Resources

In a session about unconventional resources development, Mohamed Adel Ibrahim Khalil of North Port Said District Department Manager, Belayim Petroleum Company (Petrobel), presented a study about “Declared Post-Messinian Low Resistivity Pay Zones Through Integrated Workflow to Evaluate Unrevealed Hydrocarbon Potential, Northeastern Nile Delta, Egypt”.

“This study is an attempt to prove that reviewing/ revising geological and reservoir petrophysical interpretations is a process worth trying,” said Khalil.

Haochen Han, Senior Engineer Beijing Petroleum Machinery Co, Ltd, made a presentation about the development and application of multi-stage fracturing dissolvable frac plugs for horizontal wells in Mahu tight conglomerate reservoirs.

Project Management and Execution

During a session about Successful Project Management and Execution, Mohamed Kaoud, Field Manager at Petrosannan dealt with the means of cutting CO2 emissions in the Alam Elshawish facility by reviving the petroleum sector assets.

During the same session, Tendai Stephano, CEO/ Project Manager/AIB Corp Ltd, presented “Agile Project Management in Oil, Gas, and Petrochemical Industries” as a case study of risk mitigation and efficiency strategies in AIB Corp Ltd.

Gas Production, Processing

In a session titled “Gas Production and Processing”, Jeff Earl, Director of Business Development at Sapphire Technologies, talked about pressure energy recovery systems for the natural gas midstream sector.

During the same session, Nady Diab, Process Engineering Department Head at Gulf of Suez Petroleum Company (GUPCO), presented computational investigations about corrosion inhabitation of carbon steel in a wet acid gas environment using CORR 11631 A.

Additionally, Ayman Khoshouey, Assistant General Manager at Gulf of Suez Petroleum Company (GUPCO), reviewed new pipeline two-phase flow calculations using the Lockhart Martinelli Curve.



In a session about drilling practices and performance enhancement, Salim Benmamar, Sr. GeoMechanics Specialist & (EH) RT- Manager at Baker Hughes, presented a Case study from an onshore field in Abu Dhabi, UAE, which highlighted informed decisions by GeoMechanics to improve drilling performance.

A case study was also presented by Youssry Eladly, Project Manager at Egyptian Mud Engineering Chemical Company (EMEC) in which he reviewed ways to solve depleted reservoir drilling challenges through innovative polymeric nanoparticles associated with engineered bridging particles in the Gulf of Suez, Egypt.

Innovation Talent Development

Another interesting session titled “Innovation Talent Development”, which was delivered by AUC student Maryam Gehad, talked about installing AI and VR to assist education for neurodivergent and the handicapped.

An additional presentation by Lamis Selim, Assistant General Manager in Planning & Follow-up at BAPETCO showcased means of integration between key performance indicators (KPIs) and the key risk indicators (KRIs).

Moreover, Sonika Suman, Assistant Professor GL Bajaj Institute of Technology and Management presented a comprehensive review that aligns total rewards with business strategy in the energy sector.

Advances, Technologies in Geosciences

Meanwhile, in a session titled “Geosciences’ Advances and Technologies” Bibi Hussain Akbar, Senior Geologist at Kuwait Oil Company, presented a paper entitled “Maximising Data-Driven Decision-Making With Comprehensive Core Data In A Unified And Centralised Corporate Datastore”.

In the same session, Fathy El Wazeer, a Petrophysics Expert Corda reviewed a novel approach to time-

lapse logging in producing horizontal wells using logging while tripping (LWT) technology.

CCS, Energy Transitioning

The day concluded with a session titled “Carbon Capture and Storage (CCS), Carbon Capture Utilisation and Storage (CCUS), and Energy Transitioning”.

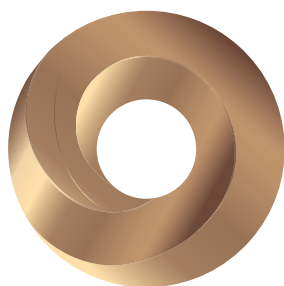
During the session, Ahmed Samir Rizk, Reservoir Engineer at Khalda Petroleum Company presented a case study about an integrated modeling and economic workflow for evaluating the viability of the CCUS Project.

Finally, Marat Gizdatullin, Product Manager of Cleaner Industries at SICK FZE addressed some issues in the carbon capture process and CO2 transportation. He noted that solutions are already available and that “Now it’s time to learn how to use them.”



TECHNICAL PROGRAMME HIGHLIGHTS

TIME	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5
TUESDAY 20 FEBRUARY	CATEGORY: PET SESSION 11 Petrochemical operations and tech developments	CATEGORY: MAR SESSION 12 Innovative offshore and marine tech	CATEGORY: ALT SESSION 13 Hydrogen production, infrastructure and deployment	CATEGORY: FIN SESSION 14 Market trends, carbon credits and contracts	CATEGORY: ENV SESSION 15 Embracing circular economy - RRRR
	CATEGORY: REF SESSION 16 Refining and petrochemical integration and innovation	CATEGORY: MAR SESSION 17 Ofshore and marine operations	CATEGORY: ALT SESSION 18 The power of renewables	CATEGORY: FIN SESSION 19 Financing Egyptian energy projects	CATEGORY: ENV SESSION 20 Decarbonisation pathways
	CATEGORY: REF SESSION 21 Refinery economics: decreasing costs and increasing profitability	CATEGORY: MID SESSION 22 Pipeline operations, technology and infrastructure	CATEGORY: ALT SESSION 23 Integrating alternatives in the energy mix	CATEGORY: CONV SESSION 24 Conventional prospect evaluation	CATEGORY: ENV SESSION 25 Flaring reduction, recovery and reinjection
	CATEGORY: DIGI SESSION 26 Digital transformation best practices	CATEGORY: HS SESSION 27 Process safety innovation	CATEGORY: ALT SESSION 28 Biofuel feedstock innovation	CATEGORY: CONV SESSION 29 Conventional reservoir characterisation	CATEGORY: ENV SESSION 30 Methane emission reduction strategies
10:00-11:30					
11:30-13:00					
14:00-15:30					
15:30-17:00					



EGYPES TECHNICAL CONFERENCE

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Technology,
Operations and
Marketing (REF)



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Technology and
Operations (PET)



Upstream:
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Conventional
Resources (CONV)



Upstream:
Exploration of
Unconventional
Resources (UNCONV)



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Processing,
Operations and
Technology (GAS)



Midstream:
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Production,
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Exhibitor: ExxonMobil Stand No: 2A60 HALL 2

EXXONMOBIL EGYPT: A FORCE FOR ENERGY, GROWTH, AND DEVELOPMENT IN EGYPT

An interview with Amr Abou Eita, Chairman and Managing Director, ExxonMobil Egypt

ExxonMobil

How would you describe ExxonMobil Egypt's role in meeting Egypt's needs for energy, and delivering social and economic benefits to the Society?

Capitalising on the Mobil brand, ExxonMobil Egypt provides the Egyptian community with vital products for the economy. For more than 120 years, we have worked to meet the changing needs of our consumers. ExxonMobil Egypt fuels serve retail, industrial, wholesale as well as aviation customers, and we are a leader in introducing branded fuels to the Egyptian market. We also led the industry to introduce credit card use in fuelling payments. We support thousands of jobs directly and indirectly in the Egyptian market. ExxonMobil Egypt offers a diversified range of industrial lubricants including synthetic products, proven lubrication solutions, and services, to automotive and industrial customers in Egypt and more than 40 countries in Africa, the Middle East, Europe, America, and the Far East.

ExxonMobil is a Diamond Sponsor of EGYPES 2024, can you tell us more about your participation?

For the seventh consecutive year, ExxonMobil is assuming a leading role in "EGYPES 2024", not only as a Diamond Sponsor, but also as a Headline Sponsor for the EGYPES Young Professionals Programme. In addition to the numerous activities designed for the EGYPES Young Professionals Programme and taking place during the event, engineering students went on field trips to ExxonMobil Egypt Asher lubricants plant where they gained valuable insights into the operations of lubricants production and distribution. During EGYPES 2024, we will be hosting Egyptian students enrolled in the Society of Exploration Geophysicists in different universities, to participate in our specialised Geoscience workshop "The Hunt for Hydrocarbons". The Workshop is led by ExxonMobil geoscientists working in the Mediterranean, and will discuss geoscience exploration methods and techniques used to identify subsurface opportunities, and enable them to apply their skills to hydrocarbon exploration. Also, six from our ExxonMobil Egypt motivational speakers will be delivering "Youth Talks," the interactive talks will be focusing on energy and technology, the future of energy, youth leadership development, the role of youth in a sustainable future, and navigating the energy sector for future leaders.

Coping with the digital era, what are ExxonMobil Egypt's investments to guarantee a digital connection with consumers?

We adopted a market back end consumer centric approach. The Brand Consumer Experience was the heart of the strategy tracking the stages of the customers' journey to strengthen the connection with our customers. Launched in 2020, "Mobilawy", the first loyalty programme in fuels and lubricants in Egypt, has been a remarkable success rapidly gaining market penetration by offering rewards on fuels and lubricants. Since then, Mobilawy has continually evolved gaining features to enhance usability and transitioning from an SMS system to an enhanced app available on both the e-app store and Google Play. We are also working on the next generation of Mobilawy platform, and the future of transactional loyalty, to develop a digital inclusive relationship with consumers,



to become the all-new feature set and the go-to digital destination for drivers' maintenance and fuelling needs. Consumers are the heart of everything we do, and so our aim is to pursue a digitally enabled consumer reach and lead in consumer digital connectivity and transformation. We are also developing the Mobil Care app, a comprehensive digital hub that holistically supports owner operators in the management of their vehicles and their business. Overall, we are proud of our integrated digital ecosystem that delivers ExxonMobil Egypt's benefits and secures long-term loyalty.

During the last few years, we have seen more Mobil Service Stations across the Egyptian streets, do you have a plan for expansion in the number of stations and services offered?

Yes, exactly. ExxonMobil Egypt has around 400 Mobil Service Stations under "Mobil" brand all over Egypt. More than 200 stations of them offer Mobil Super Plus 95, our first fuel with advanced Mobil additives, specially designed to help protect cars' engines from rust and corrosion. We also have more than 240 service centres for Mobil 1 and Mobil Autocare, in addition to more than 45 "On the Run" and "The Way to Go" convenience stores offering a broad array of merchandise ranging from gourmet Coffee, fresh food, snacks and beverages. Selected Mobil Service stations have started offering customers an integrated fleet management system that streamlines operations, maximises productivity, and minimises downtime. Fleet managers can now effectively monitor vehicle performance, track fuel consumption, ensure compliance and optimise maintenance schedules. This represents a significant milestone in our commitment to digital transformation and delivering cutting-edge solutions to our customers. It will not only enhance the efficiency of our stations but also bring significant benefits to our customers. We are also investing in 18 Mobil Service Stations under construction in different governorates, which will be inaugurated in the near future.

ExxonMobil came back to Egypt's upstream sector with new opportunities, what are your plans for exploration activities in Egypt?

Building on our strong position in Egypt, and our advanced technology and demonstrated competencies, we decided to expand our upstream acreage in the country. ExxonMobil is preparing to start drilling operations in North Marakia offshore block. In 2023, we signed concession agreements with the Egyptian Government for two additional offshore blocks; Masry and Cairo. The blocks are located in the outer Nile Delta and cover more than 11,000 square kilometres, and seismic activities have already started. We are excited with these new explorations, and looking forward to playing a pivotal role with the government in exploring this frontier area, which in turn will strengthen our exploration portfolio in the Eastern Mediterranean.

ExxonMobil strives to play a leading role in the energy transition. So, what steps did ExxonMobil take towards a lower-carbon future?

At ExxonMobil, we sell solutions rather than just products, and we formally launched our Low Carbon Solutions business in early 2021. We have significantly grown the pipeline of greenhouse gas emission-

reduction opportunities in carbon capture and storage, hydrogen, and lower-emission fuels. With our advanced portfolio, we support customers to address their greenhouse gas emissions by helping them reduce the energy they use with solutions that deliver energy efficiency and fuel economy. We're proud that our global network of lubricants blending and packaging plants, which manufacture all Mobil-branded products, was the first to earn a Zero Waste to Landfill Silver validation from Underwriters Laboratories. Each year, we divert more than 90% (50,000 tons) of lubricant operations waste away from landfills and redeploy it into new, productive uses.

The private sector and civil society play an important role in supporting national plans. Does ExxonMobil Egypt have its own programmes that contribute to the development of the community?

At ExxonMobil, we believe that our business presence should have a positive impact on the communities where we operate. Every year, ExxonMobil Egypt runs a summer internship program for around 100 students from diverse Egyptian universities to give them the opportunity to gain invaluable theoretical knowledge and hands-on experience, and thus help them be qualified for the labour market. We are committed to investing in key areas like education, development, capacity building of youth, women's economic opportunities, and promoting innovation and sciences among the Egyptian youth. This strategy can't be approached without our volunteers from the different functions of the company who dedicate much time and effort to serve the community. In that regard, ExxonMobil Egypt is looking forward to proudly partner with ElSewedy University of Technology - Polytechnic of Egypt and sponsor an Industrial engineering lab inside the university. We recently signed an agreement with the UNESCO accredited Non-Governmental Organization; Karama Foundation for Social and Cultural Development to launch a traditional embroidery project that supports Egyptian women and revives Egypt's cultural heritage. Additionally, we sponsored an offshore field camp for the Society of Exploration Geophysicists to provide real-world training to students of geophysics. We are pleased to continue our cooperation with Alexandria Business Association, Business Women of Egypt, Misr El-Kheir Foundation, Injaz Egypt, Enactus Egypt, MECA Egypt and Sawiris Foundation for Social Development, to produce direct and indirect benefits to the community.



Building on our strong position in Egypt, and our advanced technology and demonstrated competencies, we decided to expand our upstream acreage in the country.

Exhibitor: PETRONAS Stand No: 3C20 HALL 3

STRIKING THE BALANCE: PETRONAS PURSUES SUSTAINABLE ENERGY FUTURE

An interview with Hany Esmat Ibrahim, PETRONAS' Chief Executive Officer and Country Head for its operations in Egypt



PETRONAS

What are PETRONAS' latest achievements in Egypt, particularly in enhancing production, advancing the development of new phases, and addressing other business aspects?

PETRONAS Egypt has significantly boosted production in the West Delta Deep Marine (WDDM) concession through effective Reservoir and Well Facilities Management practices. Collaborating with Shell Egypt and Burullus Gas Company, we've optimized production, supplying around 5% of Egypt's gas output last year while controlling costs.

Moving forward, we're investing nearly USD 300 million to develop a new phase in the WDDM concession, slated for operation by end-2024, reinforcing our position as a key energy producer in Egypt and supporting the country's vision as a regional Gas Hub.

PETRONAS MISR Lubricant, our joint venture with Misr Petroleum, introduced advanced Synthetic Engine Oils for passenger cars and commercial vehicles, enhancing fuel economy and extending oil drain intervals. Additionally, our PETRONAS Industrial Solution portfolio, launched in July 2023, caters to key industrial segments, offering optimized performance and extended drain intervals for enhanced efficiency and resilience.

What steps do you think Egypt needs to take to achieve its goal of becoming a world energy hub?

As one of the leading global energy companies present in Egypt, we believe that for Egypt to achieve its goal of becoming a world energy hub, strategic steps are essential.

First and foremost, investing in the development and modernisation of its energy infrastructure is crucial. This may entail upgrading existing facilities, incorporating cutting-edge technologies, and diversifying the energy mix to include renewable sources.

Second, fostering international collaborations and partnerships would play a pivotal role. Collaborating with other nations, global energy companies, and organisations can bring in expertise, investment, and shared resources, contributing to the overall growth of Egypt's energy sector. Additionally, implementing effective regulatory frameworks and policies that encourage sustainable energy practices and attract foreign investment would be essential.

Lastly, promoting energy efficiency and sustainability measures within the country would not only contribute to global environmental goals but also enhance Egypt's reputation as a responsible and forward-thinking player in the energy market.

Egypt is certainly on a positive trajectory under the leadership of His Excellency Tarek El Molla. The recent accomplishments, including advancements in infrastructure enhancement and upgrading, modernisation projects, structural reforms within the sector, successful attraction of upstream investments, improved downstream performance, and energy efficiency initiatives, reflect Egypt's visionary, sincere,



and committed approach toward building a sustainable energy future for Egypt and future generations.

What are your expectations from EGPES this year? Are there any specific events, discussions, or opportunities that you are looking forward to?

Since its inaugural edition in 2017, PETRONAS Egypt has been actively involved in EGPES. Over the years, we have consistently witnessed significant improvements in various aspects, including the event's organisation, participant engagement, and the selection of topics and discussions. These advancements have elevated EGPES to become not only one of the most crucial energy conferences and exhibitions in the region but also on a global scale.

For EGPES this year, we look forward to networking with industry leaders to explore innovative solutions and contribute to the collective discourse on shaping a sustainable and efficient energy landscape.

We are specifically looking forward to participating in events and discussions that align with our commitment to a sustainable energy future. Our focus will be on opportunities related to advancements in energy technologies, sustainable practices, and collaboration with experts in renewable and clean energy, decarbonisation, and efficiency.

We warmly invite you to visit PETRONAS' booth at EGPES 2024, in Hall 3, Booth 3C20, where you can find out more how PETRONAS can fulfill your energy needs.

How do you believe the outcomes of COP28 will impact your future plans?

The outcomes of COP28 will significantly influence our future plans, particularly in our approach to the energy transition. While it's crucial to push towards a lower-carbon economy and achieve net zero emissions, we firmly believe in implementing a just transition strategy. This means acknowledging and addressing the social and economic impacts that come with shifting away from carbon-intensive activities.

We understand that without proper consideration, the transition could disproportionately affect various stakeholders, including the workforce, supply chain partners, and the broader community. Therefore, our future plans will prioritise collaborative efforts aimed at ensuring a just transition for all involved parties. We recognise that no single organisation can accomplish this alone, and we are committed to working with others to achieve this goal.

How do you balance the need to continue meeting the world's energy demands while also working towards decarbonization?

Striking a balance between meeting the world's energy demands and advancing decarbonization is a critical challenge that requires strategic and forward-thinking initiatives. At PETRONAS, we navigate this challenge by prioritising sustainability and innovation in our operations.

Our approach begins with actively deploying cutting-edge technologies to enhance our energy transition process. By emphasizing innovation, we aim to stay at the forefront of technological advancements, decarbonising our operations to meet demand. We focus on key areas such as zero routine flaring and venting, energy efficiency, electrification, and carbon capture and storage (CCS) to drive emissions reduction across our operations.

Furthermore, we recognise the imperative to address climate change and align our operations with global sustainability goals, which is why we are committed to achieve net-zero carbon emissions by 2050. Simultaneously, we acknowledge Egypt's vision for decarbonisation and the promotion of renewable energy, reflecting the country's commitment to a greener future.

In this context, PETRONAS has established GENTARI in 2022, a clean energy company that focuses on delivering net-zero solutions with investments in renewable energy, hydrogen energy and green mobility. GENTARI aims to achieve a total energy capacity of 30-40 gigawatts, produce 1.2 million tons of hydrogen annually, and provide approximately 25,000 public charging points across key markets in Asia Pacific by 2030. Simultaneously, we acknowledge Egypt's vision for decarbonisation and the promotion of renewable energy, reflecting the country's commitment to a greener future.

Ultimately, our commitment is to continue supplying energy to meet global demands responsibly while concurrently advancing initiatives that support decarbonisation and renewable energy. Striking this delicate balance requires constant innovation, collaboration, and adaptability to navigate the evolving landscape of the energy industry.



Striking a balance between meeting the world's energy demands and advancing decarbonization is a critical challenge that requires strategic and forward-thinking initiatives. At PETRONAS, we navigate this challenge by prioritising sustainability and innovation in our operations.



TransGlobe Energy
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GROWTH WITH ENERGY

Exhibitor: IPR Stand No: 3D50 HALL 3

DRILLING DEEPER, AIMING HIGHER: IPR UNVEILS AMBITIOUS INVESTMENT PLAN FOR EGYPT

An interview with IPR Energy Group's Chairman & CEO
Dr. Mahmoud K. Dabbous

Following IPR's major discoveries in 2023, what are the latest updates on production status and development plans? Have these discoveries impacted your operational efficiency or revenue forecasts?

The year 2023 was a landmark period for the IPR Energy Group and its joint venture companies with major discoveries across its portfolio. During 2023 IPR/EHO drilled exploratory well West AY-IX to a depth of 13,166 ft, which resulted in a new discovery producing 570 BOPD from the Basal Middle Bahariya sand utilising ESP artificial lifting. Also, IPR/EHO drilled a new development well, AL-48, which marked a significant find in the Kharita formation. The well tested at 3,522 BFPD (1,585 BOPD) at 55% water cut. Furthermore, the strategic recompletion of Well AL 44 to produce attic oil (560 BOPD naturally flowing) from the Alamein Dolomite fractured carbonate demonstrated IPR's ability to optimise existing resources and utilise sustainable practices. This is in addition to performing many successful workover jobs leading to a daily record production of approximately 6,000 BOPD. These discoveries have not only boosted our operational efficiency but have also had a substantial positive impact on our revenue forecasts, enhancing our financial outlook for the coming years. The success of these wells, especially considering the historical significance of Well AL-44 to the original oil discovery well West AY-IX, underscores the untapped potential still present in these fields.

In addition to optimising production in IPR's current assets, there has been a focused effort to explore and develop new opportunities in IPR's operated El Fayoum and North Beni Suef concessions. During 2023, in the North Beni Suef Concession (NBS), IPR drilled two exploratory wells, with a discovery in NBS-IX, which led to a development lease and the well placed on production. Further development of the field awaits processing and interpretation of 3D seismic acquired in 2023. In the El Fayoum concession, IPR and its JV company, Petrosilah, drilled an exploratory well, two development wells, and one water injection well. This, in addition to several workover jobs as well, has enabled production to remain at levels above 3,000 BOPD. This proactive approach, combined with the effective collaboration of our exploration and petroleum engineering teams, demonstrates our commitment to sustainable growth and continuous technological improvements in the industry. These strategic initiatives are crucial as we aim to maintain our production momentum, capitalise on new discoveries, and foster long-term profitability rapidly.

What are the main highlights of your company's investment plan in 2024, especially in Egypt?

IPR Energy Group's investment strategy in Egypt for 2024 is multifaceted and robust, with a keen focus on enhancing existing assets and exploring new growth opportunities. IPR plans to drill two exploratory wells (one deep & one shallow) in the Alamein-Yidma concession. This is in addition to drilling six new development wells and dozens of recompletion and workover jobs. Furthermore, our comprehensive workover and recompletion programme includes undertaking at least five recompletion operations and three hydraulic fracture jobs. We are also planning to transition our artificial lift systems from sucker rod pumps to Electric Submersible Pumps (ESP) for suitable wells, aiming to optimise production efficiency and well potential.

In addition to the drilling of two exploratory wells in the Alamein/Yidma field and the development plan to drill six new wells, we have earmarked substantial investments for other specific projects. IPR and its JV company EHO are currently preparing for water injection in the Northeast Alamein (NEAL) field in three reservoirs: Middle Bahariya, Abu Roash "G" Dolomite and Upper Abu Roash "G" Dolomite. This has included drilling two water source wells to the Moghra formation, conducting injectivity tests in Wells NEAL-21 and NEAL-22 and compatibility tests at EPRI, and rental of water injection equipment.

IPR also expects drilling to pick up in El Fayoum as a follow on to several water injection projects and in parallel to dozens of workovers, recompletions, and water injection conversions. This strategy is underpinned by a commitment to cost efficiency, evident in our significant push for reduction in the cost per barrel operating expenses. Our comprehensive plan goes beyond resource development, encompassing safety, environmental stewardship, and community development, in alignment with Egypt's Vision 2030.

In the Gulf of Suez, funds have been allocated for platform revamping. This is complemented by additional investment for workover activities, demonstrating our commitment to maintaining and enhancing our existing infrastructure.

Our investment in Egypt is not just about economic gains but also about upholding high standards of safety, environmental responsibility, and community development. Implementing programmes to minimise environmental impact and maintaining a strong compliance record is a testament to our commitment to sustainable and responsible operations. Through this strategic investment approach, we aim to ensure sustainable growth, operational excellence, and a responsible approach to energy production.

How does IPR progress in its decarbonisation plans?

IPR Energy Group's commitment to decarbonisation is evident in our substantial progress toward reducing our carbon footprint, a key part of our environmental strategy. IPR has adopted a zero-flare policy in order to achieve significant reductions in greenhouse gas emissions. Furthermore, connecting the Alamein field to the national grid and implementing environmentally clean power stations for remote wells represents major strides in reducing diesel consumption and further cutting down CO2 emissions.



In addition to these steps, IPR is committed to deploying leading-edge technologies to accelerate decarbonisation. This forward-thinking approach is not solely about compliance with environmental standards, it is about actively contributing to the global climate agenda. Through these comprehensive measures, IPR aims to set new industry benchmarks for environmental stewardship and sustainable practices, thereby reinforcing our position as a responsible and proactive energy provider.

How does the company deploy new technologies to enhance its energy transition process?

IPR Energy Group is at the forefront of utilising new technologies to facilitate a smooth energy transition. Our initiatives, like the new overhead transmission line network and power station project, are prime examples of integrating technology for energy optimization. This project alone has led to significant reductions in diesel fuel consumption and a decrease in specific energy consumption, contributing to our overall energy efficiency. In addition to infrastructural developments, our exploration activities are supported by cutting-edge technologies and methodologies to ensure that our operations are not only efficient but also aligned with the latest technological advancements in the industry. Our commitment to deploying new technologies is a cornerstone of our strategy to stay ahead in the energy transition journey, enhancing our operational efficiency while reducing our environmental impact.

What are your expectations from EGYPES this year? Are there any specific events, discussions, or opportunities that you are looking forward to?

At EGYPES 2024, IPR Energy Group is setting high expectations for fruitful engagement and strategic collaboration. We anticipate this event to be a vital platform for in-depth discussions on the future of the energy sector, particularly focusing on energy transition, security, and decarbonization. Our senior management team will be in attendance, ready to engage in meaningful dialogue regarding our current and future investments in Egypt and abroad. This presents an excellent opportunity for us to outline our strategic vision, share insights, and explore potential partnerships and investment avenues.

Moreover, our oilfield service team will also be present and prepared to delve into detailed discussions about our drilling activities and the comprehensive well-servicing solutions provided by IPR. This segment of the conference will allow us to showcase our technical expertise, operational efficiencies, and innovative approaches in oilfield services.

We are particularly excited about the networking opportunities that EGYPES 2024 offers. The convergence of industry leaders, policymakers, and experts in this forum is invaluable for fostering new collaborations, understanding emerging market trends, and aligning our strategies with regional and global energy dynamics. Through our active participation in key discussions during the exhibition and paper presentations at the technical conferences, we aim to enhance our company profile, share our successes, and learn from fellow industry leaders, thereby contributing to and benefiting from this global energy dialogue.



Our comprehensive plan goes beyond resource development, encompassing safety, environmental stewardship, and community development, in alignment with Egypt's Vision 2030.

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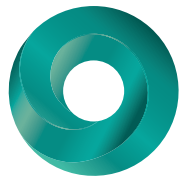


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When it comes to combatting climate change and advancing decarbonisation, global economies are rapidly moving from ambition to action. With growing concerns about the environmental impacts of carbon emissions, governments, key industrial sectors, and society at large have recognised the urgent need to transition from fossil fuels towards cleaner, more sustainable energy sources.

As a result, the global energy landscape is undergoing a paradigm shift, from fossil fuels towards renewable energies. This has led to a surge in global decarbonisation efforts in driving a remarkable wave of innovation and technologies across the energy value and supply chains. From the evolution of natural gas to the emerging potential of green hydrogen and green ammonia, a myriad of clean energy solutions is gaining momentum. These developments are, improving energy efficiency, promoting circular economy practices and increasing the adoption of renewables in the energy mix.

Following the backdrop of pressing environmental concerns and the critical need to reduce greenhouse gas emissions, the EGYPES 2024 Sustainability in Energy Conference will bring together industry pioneers to explore the latest clean energy advancements and strategies required to accelerate net-zero targets by 2050.



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	Empowering the Digital Transformation for a Clean Energy Future 14:00 - 14:30	Decarbonising Upstream Oil and Gas Operations 14:30 - 15:00	Navigating a Sustainable Future in the Maritime Sector 15:00 - 15:30	Building a Low Carbon Downstream Sector 15:30 - 16:00	Increasing the Adoption of Renewable Energy in the Energy Mix 16:00 - 16:30	

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Minister of Petroleum
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HE Dr. Yasmine Fouad
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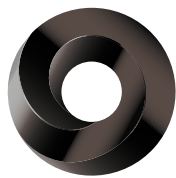


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**FINANCE & INVESTMENT
IN ENERGY**
CONFERENCE

WEDNESDAY
21 FEBRUARY
2024



Global energy markets are having to learn to adapt in today’s ever-changing industry landscape, which is striving for cleaner energy, facing geopolitical constraints, and unprecedented inflation rates.

The increased urgency of the climate crisis has accelerated calls to action for the energy sector to accelerate decarbonisation activities over the next decade and achieve meaningful targets by 2030. With the global energy mix shifting from fossil fuel-based systems of energy production and consumption to renewable energy sources, an estimated 200\$ trillion in global investments needed to reach net-zero emissions by 2050.

Despite renewable energies gaining momentum, they still only account for approximately %6 of the world’s energy consumption. Global energy demand is anticipated to rise through 2050 with oil remaining the largest energy source, investment in oil and gas projects and infrastructure will therefore be vital in ensuring affordable and reliable energy supply throughout this transitional period. Furthermore, geopolitical tensions continue to underline the importance of a more gradual transition, both for energy security and environmental reasons.

The fourth edition of the EGYPES 2024 Finance and Investment in Energy Conference will gather energy leaders, sustainable finance and climate experts to assess the economic uncertainties facing global economies in leveraging financial mechanisms and capital market tools to deliver future energy systems.

- 
GEOPOLITICS & ECONOMICS
- 
CLIMATE FINANCE
- 
ENERGY EFFICIENCY
- 
M&A OUTLOOK
- 
NATURAL GAS
- 
ESG INVESTING

ALIGNING ENERGY INVESTMENTS WITH CLIMATE GOALS

WEDNESDAY 21 FEBRUARY	Industrialisation and Localisation Policies for Egypt’s Clean Energy Transition <div>10:00 - 10:20</div>	Creating and Investing in a Carbon Capture Roadmap <div>10:20 - 11:00</div>	Allocating Trillion Dollars Globally to Achieve Net-Zero by 2050 <div>11:00 - 11:40</div>	From Greenwashing to Green Valuation: Standardising ESG Reporting <div>11:40 -12:20</div>
	Establishing an East Mediterranean Natural Gas Hub <div>13:30 - 14:10</div>	M&A Outlook in North Africa & East Mediterranean <div>14:10 - 14:50</div>	Scaling up Green Hydrogen Production, Infrastructure Development and Deployment <div>14:50 - 15:30</div>	Bridging the Energy Efficiency Financing Gap <div>15:30 - 16:10</div>

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SPEAKERS

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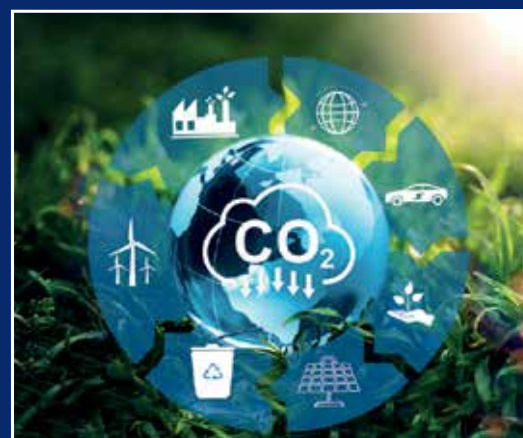
MINISTERS



GREEN HYDROGEN



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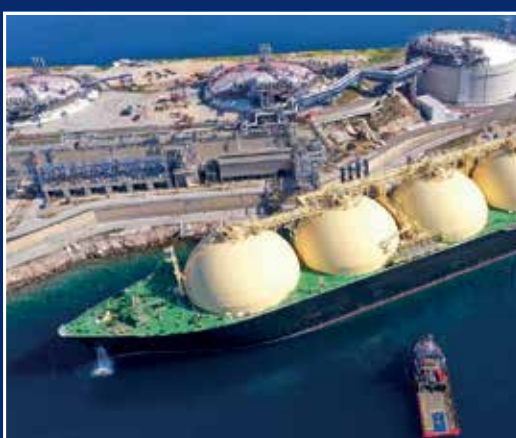


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TUESDAY
20 FEBRUARY
2024



Africa's population is expected to double by 2050, as a result the continents energy demand is expected to increase tremendously in the next two decades. Despite possessing 8% of the world's proven natural gas reserves, more than 700 million Africans lack access to energy and clean cooking fuels.

Africa's energy potential, particularly renewable energy and natural gas is enormous, but only a fraction of it is currently being realised. Natural gas has the potential to play a significant role in eradicating energy poverty and increasing access to clean, affordable and reliable energy supplies, as well as enabling a just energy transition. While Africa's gas has the ability to meet growing domestic energy needs and also function as a natural gas trading hub for global markets, most African countries lack access to infrastructure that would allow them to benefit economically from their natural gas resources.

The inaugural EGYPES 2024 African Dialogue Conference will bring together key African stakeholders including top government officials, financial institutions, economists and energy thought leaders to discuss the most pressing challenges related to policies, regulations, natural gas infrastructure development, and how Africa can leverage its rich energy resources to drive the continent towards a more prosperous and sustainable energy future. Energy resources to drive the continent towards a more prosperous and sustainable energy future.



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ENERGY POVERTY**



**JUST ENERGY
TRANSITION**



**AFRICAN
NATURAL GAS**



**ENERGY
SECURITY**



**POLICY AND
REGULATORY
FRAMEWORKS**



**FINANCING AFRICA'S
ENERGY TRANSITION**

PIONEERING AFRICA'S UNIFIED ENERGY VISION

TUESDAY 20 FEBRUARY	Africa's Climate Strategies Post-COP28 <div>10:00 - 10:10</div>	The Importance of Fossil Fuels in Africa's Just Energy Transition <div>10:10 - 10:20</div>	Navigating Africa's Energy Dilemma <div>10:20 - 11:00</div>	Evaluating Investment Opportunities and Strategies for Africa's Natural Gas Market <div>11:00 - 11:40</div>	Leveraging Africa's Natural Resources for Global and Domestic Energy Security <div>11:40 - 12:20</div>
	Policy and Regulatory Frameworks for Africa's Energy Transition <div>13:30 - 14:10</div>	Energy Infrastructure Development in Rural Africa <div>14:10 - 14:50</div>	Financing Clean Energy in Africa <div>14:50 - 15:30</div>	Closing Remarks <div>15:30 - 15:35</div>	



EGYPES
**EQUALITY
IN ENERGY**
CONFERENCE

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WEDNESDAY

21 FEBRUARY

2024



As the energy transition accelerates, fuelled by groundbreaking clean energy technologies, the global spotlight on talent strategy intensifies. This has increased pressure in the industry to recruit, retain, and upskill existing talent to bridge skill gaps, exacerbated by retiring professionals leaving the sector, digital transformation creating new roles, and talent drain to technology sectors.

Navigating the energy transition and attaining net zero targets by 2050 will be a generational challenge, with STEM millennial and Gen Z graduates of today, being the energy leaders of tomorrow. With this in mind, the sector is actively redefining itself to be an attractive career proposition for the next generation of talent. From creating flexible working environments which offer employees better work life balance to fostering a culture of purpose that aligns with their values.

Despite evidence clearly demonstrating that a diverse and inclusive workforce fosters profit and innovation, yet only a tiny proportion of women continue to enter the energy industry in spite of a large cohort of STEM graduates. Creating a diverse and inclusive workforce remains a strategic necessity to enable a low carbon future. The EGYPES 2024 Equality in Energy Conference will bring together global industry experts, including organisational change management and inclusion and sustainability leaders to drive the discussion on how talent strategy is becoming an existential priority in creating a people-centred energy future.



**ENERGY TRANSITION
SKILL GAP**



**NET-ZERO
WORKFORCE**



**GENDER
DIVERSITY**



**TALENT
DEVELOPMENT**



**STRATEGIC
WORKFORCE PLANNING**



**GEN Z AND
MILLENNIALS**

ENABLING A PEOPLE-CENTRED ENERGY FUTURE

WEDNESDAY
21 FEBRUARY

Advancing
Gender Equality
in the Energy
Sector: Tackling
Sociocultural
Barriers

10:00 - 10:10

Reinventing the
Energy Workforce
of Tomorrow

10:10 - 10:20

Empowering a
Net-Zero Ready
Workforce -
Rethinking Talent
Development

10:20 - 11:00

The Role of HR
in the Evolving
Energy
Landscape

11:00 - 11:40

Redefining
Success:
Millennial and Gen
Z Perspectives on
Careers in Energy

11:40 - 12:20

Fostering a
Culture of
Equality and
Gender Diversity
in the Energy
Industry

12:20 - 13:00

EQUALITY, DIVERSITY AND INCLUSION CHAMPIONS



Moushira Khattabta
President
National Council
for Human Rights



Kristian Svendsen
Country Manager
Chevron Egypt



Walid Tayel
Group Chief HR Officer
El Sewedy Electric



Tareq Al Hosani
Vice President,
Energy & Projects Academy
ADNOC



Muzzamil Khider Ahmed
Senior Vice President
& Chief People Officer
Baker Hughes



Salma Al Hajeri
Regional Vice President,
Operations - East-Med
& North Africa
Mubadala Energy



Giuseppe Vischetti
Chief Financial Officer
Energian International



Nahla Abid
Vice President Sales
& Strategy, Middle East,
Caspian Sea Region
Bureau Veritas



Moataz Serag
Country Director Egypt
Taq



Zainub Noor
Director, Scouting
& Innovation
Halliburton



Moataz Moussa
Vice President
of Business Services
Wintershall Dea



Brandy Jones
HR Vice President
Apache Corporation



Samar Yehia
HR Vice President
Schneider Electric



Maha Ahmed
HR Director
Lekela Power



Heba Abaza
HR Director, Middle East
Eaton



Yara Rashad
HR Director
Karm Solar



Eric Oechsli
Director
International Labour
Organisation



Sherif Wessef
Learning &
Development Partner
Hitachi Energy



Asma Almani
MENA Chair
Lean in Equity
& Sustainability



Nawal Nouri
Head of HR
& Communications
North Africa
ENGIE



Thenji Moyo
Partner and Head
of Employment
Gateley LLP



Dina Hegazi
Partner, Energy
Avery Law



Nahla Arsenault
Capex and
Turnaround Lead
Fertiglobe



Yousra Assaker
Senior Energy Specialist
The World Bank



Wafaa El Ashry
HR Manager Egypt
Shell



Manal El-Jesri
Public Affairs Manager
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Wael Hossam
International Business Growth,
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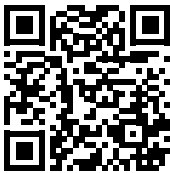
START-UP ZONE
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WEDNESDAY
21 FEBRUARY
2024



The growing impact of climate change due to greenhouse gas emissions has been a dominant cause for concern around the world, underscoring the crucial role of innovation and climate-centric technologies in accelerating a decarbonised future. As the energy transition begins to take shape, start-ups are emerging as pivotal catalysts, delivering technological innovations that hold the key to achieving a low carbon future.

EGYPES 2024 CLIMATECH Challenge serves as a global platform for start-ups to pitch their technological solutions and business models in front of a panel of influential judging committee, spotlighting pioneering start-ups with cutting-edge solutions to expedite the energy transition and amplifying the role of undiscovered energy innovators in advancing global net-zero targets.

The event encompasses a rich programme of keynote speeches, motivational talks and panel discussions - gathering global energy industry visionaries, investors, change-makers, and emerging start-ups to showcase the critical innovations and groundbreaking climate technologies that are accelerating decarbonisation and supporting the transition to clean energy sources.



**CLIMATE
TECH**



**MARKET
OPPORTUNITY**



**BUSINESS
MODEL**



**TEAM
COMPOSITION**



**INVESTMENT
POTENTIAL**

ACCELERATING CLIMATE ACTION IN ENERGY

WEDNESDAY 21 FEBRUARY	Empowering Climate Tech Start-Ups and Entrepreneurs 13:00 - 13:10	Attracting Capital for Climate Tech Start-Ups 13:10 - 13:40	Collaboration between Energy Corporations and Climate Tech Start-Ups 13:40 - 14:10	Pitch 1 Circa Biotech 14:30 - 14:45	Pitch 2 Golu Hydrogen Technologies Inc 14:45 - 15:00
	Pitch 3 Planet AI Space 15:00 - 15:15	Pitch 4 PiKARE Water and Energy Technologies Inc. 15:15 - 15:30	Pitch 5 ASN Fuels 15:30 - 15:45	Ministerial Speech 16:00 - 16:10	EGYPES 2024 Climatech Challenge Winner Announced 16:15 - 16:20

The programme agenda and speakers are correct at the time of print, Friday 16 February 2024. For the latest Conference updates, please visit egypes.com/conferences



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CELEBRATING EXCELLENCE AND INNOVATION IN ENERGY

The EGYPES Energy Awards takes centre stage as an integral part of EGYPES 2024, paying tribute to visionaries in innovation, fostering collaboration, and honoring the trailblazers who are steering the transformation of the energy sector towards a sustainable future for all.

In alignment with EGYPES' overarching theme, this year's awards ceremonies actively support the industry's unification and acceleration of energy transition initiatives, along with groundbreaking solutions to decarbonise, ensuring a sustainable and secure future for the entire global community.

With 9 curated categories, the EGYPES Energy Awards shine the spotlight on resolutions to challenges faced by the energy industry while championing the cause of global energy transition. These categories mirror the urgent need for universal access to cleaner, more secure energy and tangible, credible solutions that usher in impactful change and transformative progress for the betterment of humanity. As nominees and winners of the EGYPES Energy Awards, pioneering and influential leaders making headlines and catalysing important developments in the energy sector are recognised for their invaluable contributions on the road to achieving net zero.

egypes.com/awards



**DECARBONISATION
PROJECT OF THE YEAR**



**BEST DIGITALISATION
PROJECT OF THE YEAR**



**ESG - CHAMPION OF
THE YEAR**



**BEST HYDROGEN
PROJECT OF THE YEAR**



**BEST CSR PROJECT
OF THE YEAR**



**TALENT DEVELOPMENT
PROGRAMME
OF THE YEAR**



**NEX-GEN FEMALE
OF THE YEAR**



**WOMEN IN
LEADERSHIP**
























TUESDAY - WEDNESDAY

20 - 21 FEBRUARY

2024

The EGPES Energy Awards takes centre stage as an integral part of EGPES 2024, paying tribute to visionaries in innovation, fostering collaboration, and honoring the trailblazers who are steering the transformation of the energy sector towards a sustainable future for all.

FINALISTS FROM ENERGY PIONEERS

BEST CSR PROJECT OF THE YEAR 	 	NEX-GEN FEMALE OF THE YEAR 	 
BEST DIGITALISATION PROJECT OF THE YEAR 	 	TALENT DEVELOPMENT PROGRAMME OF THE YEAR 	 
BEST DECARBONISATION PROJECT OF THE YEAR 	 	WOMEN IN LEADERSHIP 	 
BEST ESG CHAMPION OF THE YEAR 	 	<p>Join us as we celebrate excellence and innovation in Energy</p> <p>EGYPES Sustainability in Energy Awards Tuesday 20 February 2024 16:30 hrs</p> <p>EGYPES Equality in Energy Awards Wednesday 21 February 2024 13:00 hrs</p>	

EGYPES UNVEILS GAME-CHANGING FUTURE ENERGY ZONE: TECH FOR ENERGY TRANSFORMATION

The Egypt Energy Show unveiled its groundbreaking Future Energy Zone, a dedicated space showcasing cutting-edge solutions harnessing the power of digital technologies to transform the energy sector.

The Future Energy Zone is a comprehensive showcase that promises to be a game-changer for exhibitors and visitors. Therefore, it was a key component of the exhibition, set to leave no aspect of energy transition unexplored.

Moreover, exhibiting in this zone offers a unique opportunity for companies to spotlight their brand, attract new business, forge key connections, meet potential buyers, engage new markets, and gain valuable insights.

Accordingly, exhibiting companies in the future energy zone got the opportunity to spotlight the products, enable responsible practices, and position their brand for growth with regional and global partners. Explore cutting-edge tech further and discuss the energy transition's impact and tech integration.

On the sidelines, Natasha Mohd, Marketing Executive at Synergy Engineering, emphasized the pivotal role of the Future Energy Zone in facilitating global expansion opportunities for companies and exhibitors such as Synergy Engineering.

Mohd highlighted the event's significance as a key driver for her company and others, emphasizing its essential role in fostering growth.

Also, Mohd emphasized the attractiveness of Egypt and the Future Energy Zone as a catalyst for international participation, noting her journey from Malaysia to leverage the platform for expansion and exhibition, underscoring the event's profound importance in the industry.

The zone featured a hub for renewable energy solutions, giving them the chance to showcase the latest solar, wind, and other renewable energy technology advancements.

Notably, visitors interacted with the latest products and services related to renewable energy, such as energy storage solutions, smart inverters, and electric vehicles (EVs).

Youssif Ahmed, a student from Azhar University, emphasized the significant impact of the Future Energy Zone in providing valuable insights and opportunities for youth, particularly university students.

Ahmed highlighted how the event facilitated a deeper understanding of Egypt's energy transition and encouraged active participation among



**EGYPES
FUTURE ENERGY
ZONE & THEATRE**

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attendees, empowering them to envision their role in shaping the country's future energy landscape.

Nourhan Khaled, one of the visitors of the Future Energy Zone, expressed her gratitude for the opportunity to participate in such a significant event and witness Egypt's commitment to embracing future energy transition concepts.

She further emphasized the zone's role in empowering women to advance their careers and navigate towards their goals with confidence and purpose.

The zone featured interactive displays demonstrating how renewable energy solutions can be integrated into the entire energy value chain.

Besides, the future zone is designed to help businesses worldwide identify opportunities from Egypt, North Africa, and the Mediterranean's future project requirements and strategic priorities.

The exhibition covered the full energy value chain, including decarbonization, digitalization, hydrogen, alternative energy, and the climate change challenge.

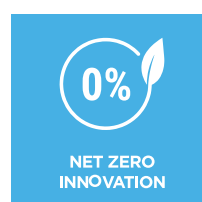
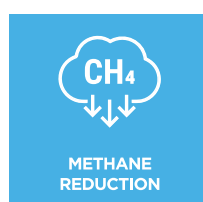
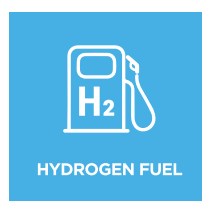
As a result, visitors had the precious chance to dig deeper into every aspect of the energy transition value chain, exploring decarbonization, methane reduction, transitional fuel, renewable energy, hydrogen fuel, desulphurisation, nuclear power, hydrogen feedstock, carbon capture & storage, climate tech, net zero innovation, and electric charging.

Vaibhav Goyal, Senior Business Development Manager at L.L.C-FZ, lauded the Future Energy Zone as an invaluable platform fostering collaboration between local and international contractors.

Goyal emphasized the Zone's pivotal role in bolstering Egypt's portfolio within the Oil and Gas sector, highlighting the nation's abundant potential and promising opportunities.

It is noteworthy that the event also attracted over 35,000 attendees from international businesses to identify opportunities from Egypt, North Africa, and the Mediterranean's future project requirements and strategic priorities.

EXHIBITOR PROFILE FUTURE ENERGY ZONE



EGYPES YOUNG PROFESSIONALS PROGRAMME EMPOWERS FUTURE ENERGY LEADERS



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ExxonMobil

The dynamic Young Professionals programme kicked off with a bang, engaging young students in various activities. Designed to empower the next generation of energy leaders, the programme offered opportunities to explore career pathways, connect directly with international energy influencers, and cultivate success in fair and equitable work environments.



Additionally, Amir stressed the significance of networking, urging participants to leverage platforms like EGPES to expand their professional horizons and accelerate their career development."

Yehia underscored the multifaceted nature of engineering companies, emphasizing the value placed not only on technical proficiency but also on soft skills and personal attributes.

The first day started with ExxonMobil Exploration Workshop under the theme of "Empowering Youth, Shaping the Future," where some experts, including Alaa Rizk, IT service Owner at ICF, ACC Coach for BP North Africa, Ghana, and Nigeria Region, Maureen Amir, Completions Engineer at BP, Sara Fakhry, Geologist and Assistant Exploration Manager, Yasmine Yehia, Global Employer Branding Senior Manager at Schneider Electric, and Mohamed Taha, Projects and Technical Consulting manager at ENPPI, tackled the subject of empowering Youth to enhance their careers in the near future further.

ExxonMobil, tailored dedicated workshops are delivered by ExxonMobil experts to participating youth aiming to significantly expand their level of knowledge, targeting students in the field of Geosciences and sharing ExxonMobil's leading-edge expertise in technology and sustainable processes.

The main objective of the YP Programme is to ensure the useful exchange of experience and insights from professionals in the energy field and the next generation of energy leaders, with participating university students.

During the event, Fakhry delivered a compelling address aimed at fostering female empowerment in careers. Fakhry elucidated strategies for goal attainment, particularly focusing on guiding the youth towards achieving their aspirations.

Also, Fakhry underscored the significance of seeking guidance from seasoned professionals, citing the support she received from her mentors, including the CEO of her organisation, as instrumental in her trajectory towards achievement.

For her part, Amir delivered an insightful presentation shedding light on her journey navigating challenges within the industry. Amir shared her personal experiences to inspire young attendees, emphasising resilience and self-belief as vital elements in pursuing career aspirations.

In her address, Yehia stressed the significance of establishing a robust presence on professional networking platforms such as LinkedIn. She urged attendees to cultivate compelling profiles on LinkedIn, noting its role as a primary recruitment tool utilised by industry professionals seeking to engage with promising young talent like those present at the Young Professionals event.

The YP, also focusing on high school students, aims to introduce the energy profession in an interactive dedicated space providing an on-site learning experience, allowing students to learn about the oil and gas industry.

Furthermore, EGPES Young Professionals is a dynamic platform for aspiring energy enthusiasts, offering a powerful stage to engage, learn, and lead the charge in shaping a sustainable, energy-efficient and transformative future.

Additionally, the Programme extends its impact by providing an on-site and off-site learning platform that actively engages high school and university students within the framework of STEM Education, with a sharp focus on Science, Technology, Engineering, and Mathematics.

The programme's activities span several zones, including the Race to Zero Zone, an interactive area following the global campaign to educate young talent on the importance of reducing carbon emissions to mitigate climate change, and the opportunities to build a career in the energy sector.

In the Technology Zone, young professionals can engage with hands-on STEM kits, sparking high school student's interest in science and technology, while the Engineering Zone is a dedicated realm spotlighting engineering's pivotal role in shaping the future of energy.

In Shell NXplorers Competition, participants are required to present sustainable solutions addressing energy sustainability and transition, covering the importance of technology and engineering in the sector in alignment with UN SDGs and Egypt 2030 Strategy to create a more sustainable future.



EGYPES ENERGY CLUB

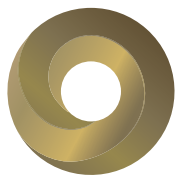
Since 2017, the EGYPTES Energy Club (EEC) has served as a prestigious and exclusive club-lounge that provides membership to professionals within the energy industry to network and share ideas. Every year, the EEC welcomes the industry's elite and top decision-makers while attending EGYPTES.

As a private networking hub within EGYPTES, the EEC offers its members an ideal secluded setting to build new relationships, solidify partnerships and strengthen existing connections. Though EEC membership is complimentary, final acceptance into the club is subject to formal approval once members have submitted a completed application form.

The EEC mainly caters to the industry's most senior leadership and influential individuals. Membership is exclusive to ministers, dignitaries, C-level executives, and top decision-makers from energy companies, including international oil companies (IOCs), national oil companies (NOCs), services companies and global EPC contractors

Benefits of EEC membership include:

- › **Gaining Access to Exclusive Insights:** Becoming an EEC member can be your key to being given exclusive insights and keep informed about the latest technologies, policy changes and market trends. Engaging discussions, club resources and informative presentations make this all possible.
- › **Forging Strategic Partnerships:** Building bridges of collaboration and partnership opens doors to business success and professional growth. The EEC offers its members the opportunity to interact with a rich variety of seasoned professionals that have diverse perspectives and expertise that can generate innovative solutions to revolutionise the industry.
- › **Elevating Your Professional Profile:** With visibility and recognition being key factors to success in this competitive sector, gaining EEC membership will give you the opportunity to be part of an influential network of elite industry professionals. Your presence and involvement in the club's exclusive collaborations, discussions and events can significantly enhance your professional profile.
- › **Connecting to a Vibrant Community:** Members will have the prerogative of accessing a dynamic community of industry leaders, visionaries, seasoned experts and widely recognised influencers. This provides the EEC's esteemed members with the exclusive opportunity to collaborate and engage the sector's top professionals who have shown unwavering commitment to developing Egypt's energy industry.



**EGYPES
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CLUB**

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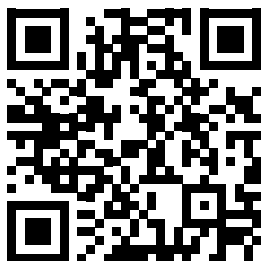
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OPINION

THE STATE OF PLAY OF SUSTAINABLE MOBILITY



With electric vehicle demand rising and governments committed to lowering carbon emissions, **ADNOC Distribution CEO Bader Saeed Al Lamki** outlines the biggest opportunities and challenges for a region looking to go green

With electric vehicle (EV) demand on the rise and governments committed to lowering carbon emissions, the landscape of sustainable mobility in our region is evolving at a rapid pace. As the important conversations commence at EGYPES, it's an appropriate moment to examine both the opportunities and challenges that lie ahead for the Middle East.

The region's EV market is projected to reach \$7.65 billion by 2028, up from \$2.7 billion in 2023. This exponential growth is fueled by various factors, including government initiatives such as those spearheaded by the Saudi Electric Vehicle Charging Infrastructure Development Initiative and the Dubai Electricity and Water Authority, which plan to install 50,000 and 1,000 charging stations in Saudi Arabia and Dubai, respectively. Additionally, increased awareness of energy storage solutions and the implementation of Vision 2030 are driving factors behind this surge in demand.



Renowned EV manufacturers such as Volkswagen, Nissan, Hyundai, BMW, and Tesla have established their presence in the region, competing for market share. Partnerships between global players and local organisations, such as Lucid Group's agreement with the Public Investment Fund to open the automaker's first international manufacturing plant in Saudi Arabia and ADNOC Distribution's collaboration with UAE-based EV manufacturer NWTN for EV servicing solutions, underscore the region's commitment to sustainable mobility.

Despite the growing demand for EVs, consumers still harbour concerns. First and foremost is pricing, which 48% of respondents to a recent S&P Global Mobility survey cited as their number one barrier to adoption. This is followed by range anxiety. Although the current generation of EV batteries offer more range than their predecessors, models with larger batteries tend to be more expensive. While EV owners who reside in homes may have the convenient option of overnight charging, this often isn't the case for apartment dwellers.

To address this challenge, a robust charging infrastructure is essential. We are creating a national ecosystem to enable the easy adoption and transition to use of EVs as we support the UAE government's goals to increase the share of EVs to 50% of total vehicles on our roads by 2050. In 2023 we launched the UAE's largest dedicated EV Hub located in Masdar City, Abu Dhabi. We deployed 50 fast and super-fast EV chargers at top service stations and continue to expand the network across strategic locations.

In addition to EVs, ADNOC Distribution has taken a pioneering step by piloting hydrogen technology through the launch of H2GO, the first high-speed hydrogen refuelling station in the Middle East. This project aims to gather crucial data on the long-term viability of hydrogen vehicles in the UAE. We eagerly await the results of this pilot and are optimistic about the potential deployment of hydrogen refuelling technology not only in the UAE but also in other markets where we operate.

While we expand our EV infrastructure and explore new technology, we have maintained a focus on innovative solutions to reduce the emissions of traditional internal-combustion-engine vehicles. We pioneered the use of B20 Biofuel for powering our entire commercial fleet in the UAE and last week we announced our partnership with FertiGlobe to secure a 3-year supply of diesel-exhaust-fluid for ADNOC-Blue, our latest new product launch, formulated to reduce harmful NOx emissions by up to 90%. All of this is part of part of our broader decarbonisation commitment to a 25% reduction in emissions across our operations by 2030.

As we navigate the transition towards a more sustainable future, collaboration between governments, businesses, and communities will be key. By addressing challenges and capitalising on opportunities, we can build a future where sustainable mobility is not just a goal but a reality for all.

I look forward to seeing what this year's EGYPES has in store for us.

AS WE NAVIGATE THE TRANSITION TOWARDS A MORE SUSTAINABLE FUTURE, COLLABORATION BETWEEN GOVERNMENTS, BUSINESSES, AND COMMUNITIES WILL BE KEY. BY ADDRESSING CHALLENGES AND CAPITALISING ON OPPORTUNITIES, WE CAN BUILD A FUTURE WHERE SUSTAINABLE MOBILITY IS NOT JUST A GOAL BUT A REALITY FOR ALL.



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Stand No: **3C60** **HALL 3**

MUBADALA ENERGY: BUILDING A BRIGHTER ENERGY FUTURE AT EGYPES 2024

EGYPTES is an excellent opportunity to connect with our key stakeholders from government and the industry. We look forward to meeting these partners and creating new relationships during the show. We're also excited to have a number of speakers at the event where we'll discuss areas including energy transition, digital transformation and how we can ensure a diverse and vibrant skills mix in our sector to power the future.



Mubadala Energy



During the event we will be presenting on our stand our investments and plans in Egypt and the wider East Med, as well as showcasing how we have evolved our strategy to play an active role in the energy transition through gas, new energy sectors and by decarbonizing our

operations. In addition, we will present our commitment to sustainability and the work we are doing to support local communities across education, environment and community development.

Stand No: **1F60** **HALL 1**

BEYOND CONSTRUCTION

With over 46,000 employees and a \$295 million equipment fleet, Orascom Construction tackles large-scale projects in infrastructure, fertilizers, oil & gas, renewables, and increasingly, green hydrogen, playing a key role in groundbreaking green hydrogen initiatives including the first 100 MW green hydrogen plant in the region.



In Fertilizers, Orascom Construction has constructed over 8 plants globally, with a total production capacity of 14 million metric tons of various chemicals and 11 million metric tons of nitrogen-based fertilizers. Notable examples include the Sorfert Fertilizer Plant, the largest integrated nitrogen fertilizer producer in Africa at the time; and the Iowa Fertilizer project in the US, the first greenfield nitrogen fertilizer plant built in the US in over 25 years.

Orascom Construction established its LNG credentials in 2004 with the delivery of the landmark Damietta project, Egypt's first LNG production and export complex, meticulously executing key components like the jetty, concrete piles, gas tanks, and steelwork, setting the stage for future success.

Expanding within Egypt, Orascom tackled ports in Alexandria and Dekheila, showcasing versatility. Reach extended to Algeria, where Orascom Construction delivered

the Skikda LNG train and the El Merk Central Processing Facility, demonstrating the ability to handle complex infrastructure projects.

In 2016, Orascom Construction delivered the Ain Sokhna marine terminal, a feat of engineering encompassing both onshore and offshore facilities for diverse fuel types. Most recently in 2019, expertise in steelwork and piping shone in Africa's largest refinery, the Egyptian Refining Company (ERC); solidifying the position as a top player in large-scale LNG projects.

Through a series of strategically executed projects, Orascom Construction has cemented its status as a leading force in global oil, gas & petrochemical projects, renowned for its unwavering commitment to delivering world-class infrastructure.

Stand No: **3H60** **HALL 3**

SIDPEC: POWERING PROGRESS, SHAPING THE SUSTAINABLE FUTURE OF PETROCHEMICALS

Sidi Kerir Petrochemicals Company (Sidpec), a leading force in the petrochemicals landscape, is gearing up for a dynamic showcase at the upcoming EGYPES 2024.

From pioneering the petrochemicals industry in Egypt to powering and supporting industry players, Sidpec has built a legacy of progress. This legacy of progress is the basis for Sidpec to exceed expectations and push the boundaries of what's possible.

Sidpec will showcase its decarbonisation strategy which consists of its effective matured energy management system as the foundation along with four pillars to achieve the specified target of reducing GHG emissions. The four pillars are considered as the phases of evolution of Sidpec's decarbonisation journey, commencing with the implementation of No-Cost/Low-Cost Opportunities, progressing to investments in energy efficiency (EE) projects and venturing into innovative projects for decarbonisation. Sidpec is currently poised to implement a cutting-edge Digital Energy Management System (DEMS). Sidpec will highlight the sustainability projects pipeline including already implemented EE projects like CHP and other innovative solutions to re-cycle

and re-use the CO₂ into Methanation plants. Sidpec's keen interest in exploring energy transition underscores its proactive stance towards embracing environmentally responsible and economically viable solutions.



Sidpec deeply believes that the future of petrochemicals is built on shared knowledge and strong partnerships so the target in EGYPES 2024 is to turn Sidpec's booth into a dedicated networking zone which fosters meaningful interactions between industry leaders, stakeholders, customers and potential partners to discover new opportunities, share ideas and ignite collaborations that will propel the petrochemicals industry forward.

Sidpec's team aims to participate in discussions and workshops featuring industry experts to explore innovative topics such as carbon capture, responsible resources utilisation, green initiatives, environmental stewardship, bio-based feedstocks, biopolymers, production technologies and many other topics to build a more sustainable future.

Stand No: **3B60** **HALL 3**

WINTERSHALL DEA'S LEGACY IN EGYPT: NEARLY 50 YEARS OF ENERGY EXCELLENCE

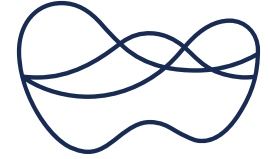
Wintershall Dea is Europe's leading independent natural gas and oil company with more than 120 years of experience as an operator and project partner along the entire E&P value chain. The company with German roots and headquarters in Kassel and Hamburg explores for and produces gas and oil around the world. In the MENA region, Wintershall Dea is active in Egypt, Algeria, the United Arab Emirates, and Libya in an efficient and responsible manner. Wintershall Dea has a global upstream portfolio and, with its participation in natural gas transport, is also active in the midstream business.

As a European gas and oil company, Wintershall Dea supports the EU's 2050 carbon neutrality target, and has set ambitious targets: Wintershall Dea wants to be net zero across its entire upstream operations – both operated and non-operated – by 2030. This includes Scope 1 (direct) and Scope 2 (indirect) greenhouse gas emissions on an equity share basis. Wintershall Dea will also bring its methane emissions intensity below 0.1 per cent by 2025 and maintain zero routine flaring of associated gas in its operations. In addition, the company plans to reduce emissions resulting from the use of hydrocarbons by applying CCS and low-carbon hydrogen technologies,

potentially building up a business abating 20-30 million tonnes of CO₂ per annum by 2040.

Wintershall Dea has been active in Egypt for almost 50 years. The company's history in the country was rooted in crude oil production. Wintershall Dea started production in the early 1980s in the Gulf of Suez. Over almost 40 years the company produced more than 650 million barrels of crude oil there. Following a strategic portfolio review, today, Wintershall Dea is focused on natural gas in Egypt. Wintershall Dea produces gas at Disouq in the onshore Nile Delta and as a partner to BP in the West Nile Delta offshore gas project. Additionally, Wintershall

Dea is actively exploring onshore at East Damanhour, and as partner to BP, in the offshore North West Abu Qir exploration block. Wintershall Dea remains a stable and long-term investor, and is eyeing opportunities in the fields of carbon management and hydrogen. Today, tomorrow and into the future: Wintershall Dea is a strong energy partner for Egypt



wintershall dea





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Stand No: **2F58** HALL 2

FUGRO UNVEILS CUTTING-EDGE GEO-DATA TECH AT EGYPTES 2024

As the global leader in Geo-data solutions, Fugro looks forward to showcasing its latest advancements in remote and autonomous technology shaping the energy industry at EGYPTES 2024.



At this year's event, Fugro will shine a spotlight on their remote operations, 3-Vision technologies, blue robotic solutions and the digitisation of workflows. Fugro's ability to provide early insights into ground conditions is multiplied through these new technologies. This provides their clients with data-driven insights that will play a pivotal role in driving the energy transition, ensuring security, and advancing decarbonisation efforts.

With a legacy of over 40 years of operating in Egypt, Fugro's experts bring a wealth of knowledge that can assist players in the energy industry in significantly reducing costs,

mitigating risks, and decreasing exposure to health, safety, and environmental (HSE) impact.

Be sure to visit the Fugro stand, 2F58 and talk to their team about the potential Geo-data can unlock for your project.

"We are committed to empowering the energy industry through our innovative solutions to navigate the evolving landscape of the energy transition. At EGYPTES 2024, we look forward to sharing these advancements, fostering collaboration, and driving sustainable progress together."

Stand No: **1G41** HALL 1

FROM INDIA TO THE WORLD: KEI INDUSTRIES - YOUR TRUSTED CABLE PARTNER

Welcome to KEI Industries, a leading cable manufacturer with over 50+ years of expertise in providing comprehensive cable solutions. Our product range includes LV, MV, HV, instrumentation cables, solar cables, lead-sheathed cables, rubber cables, and products for segments like industry, Oil & gas, Power, Petrochemical, Solar, Wind and Renewable, Real Estate, Marine and many more. As the largest cable exporter from India, we proudly serve over 60 countries through our 5 state-of-the-art manufacturing facilities.



At KEI Industries, we have earned a reputation for excellence by consistently delivering high-quality cables meticulously designed to optimize project outcomes. KEI's Products are duly accredited by DNV. We have successfully type tested our products at KEMA - The Netherlands, BRE - UK, CPRI - India, ERDA - India, DNV - Norway and conform to all international standards like IEC, VDE, BS, EN, SABS, CSA, NEK 606, UL, AS/NZS, ANSI & many more.

Visit our booth at EGYPTES Exhibition halls to discover innovative cable solutions tailored to your specific needs. Experience first-hand how our products contribute to the success of projects in oil and gas, renewable energy, power utility, buildings, infrastructure, and industrial sectors. Choose KEI Industries for dependable and efficient cable solutions that make a difference.

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Stand No: **1E40** **HALL 1**

METHANEX DEMONSTRATES EXCELLENCE IN PROCESS SAFETY MANAGEMENT, SUSTAINABILITY

Methanex is pleased to participate in EGPES for the second time in 2024 with a strong focus on showcasing the company's commitment to sustainability. Methanex's exhibition booth will highlight the company's sustainability strategy, which is deeply aligned with the UN SDGs. Methanex's sustainability strategy is designed to contribute to several SDGs with a particular focus on protecting the planet, ending extreme poverty, and reducing inequality.



As the world's largest producer and supplier of methanol, Methanex plays a critical role in supporting sustainability efforts contributing to the transition to a low carbon economy. The company is dedicated to supporting global decarbonization efforts through three main priorities: reducing emissions from conventional methanol, producing lower-carbon methanol, and growing methanol markets. By pursuing these priorities, Methanex is actively working towards promoting sustainable practices and reducing its environmental impact.

Methanex also strongly believes that creating positive and sustainable impacts in the communities where it operates is essential for a more sustainable future for all. Methanex Egypt's partnership with the International Labour Organization (ILO) to support young people through finding decent jobs is another initiative that tackles multiple SDGs. Since 2019, Methanex Egypt has partnered with the ILO to support young women and men in Damietta, resulting in over 2,400 training opportunities and the creation of 725 jobs.

Methanex Egypt's efforts to promote Process Safety

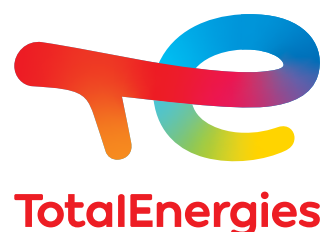
Management (PSM) within the national oil, gas and petrochemicals industry significantly contribute to the sustainability of the sector. Since 2018, Methanex has been dedicated to raising awareness about PSM and initiating dialogue on its importance in Egypt. This commitment culminated in the launch of the annual PSM conference and the signing of a memorandum of understanding with the Ministry of Petroleum and Mineral Resources in 2020. Subsequently, this partnership led to the establishment of the Egyptian PSM Steering Committee, Technical Sub-Committee, and the development

of 24 PSM standards and guidelines for sector companies to adopt and implement. These efforts play a crucial role in supporting the long-term sustainability of the oil and gas sector in Egypt.

By showcasing the company's sustainability goals and efforts at EGPES 2024, Methanex aims to demonstrate its strong commitment to social responsibility, environmental sustainability and the overall safety and wellbeing of all stakeholders involved in the industry.




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WEDNESDAY 21 FEBRUARY	08:45	09:00	09:15	09:30	19:00	19.30

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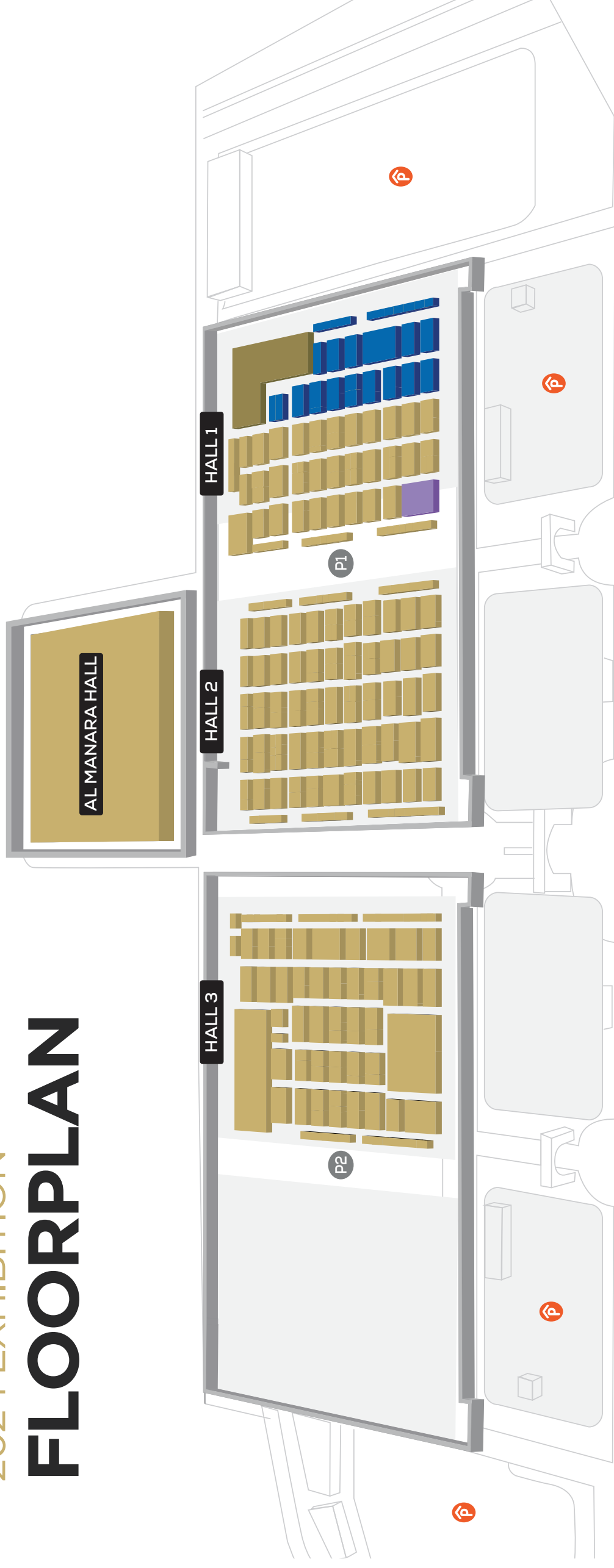
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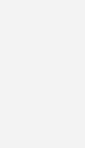
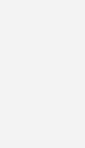
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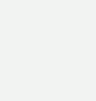
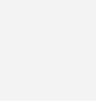
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CHEIRON'S Commitment to SUSTAINABILITY AND ENERGY TRANSITION

At Cheiron, sustainability isn't just a buzzword; it's a commitment that drives our actions and decisions every day. Through comprehensive policies and plans, we're spearheading a transformation toward a greener and more sustainable future, with tangible actions spanning short, medium, and long-term horizons.

Our Sustainability and Energy Transition Plans are meticulously crafted to address critical issues while aligning with global standards and initiatives. From reducing emission intensity to eliminating routine venting and flaring, we're dedicated to making a measurable impact on the environment.

