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#### EGYPS 2022 DRAWS ROADMAP FOR AFRICA'S **ENERGY TRANSITION**



In a keynote address by Fatih Birol, Executive Director of the International Energy Agency (IEA), Birol referred to the worldwide recognition of Egypt as an important energy player. He delivered what he described as "good news" saying that "in the light of the developments in Egypt, and following the Egyptian government request, I look forward to welcoming Egypt joining the International Energy Agency's family as an associate member.

He tackled how climate change affects Africa, pointing out that the whole continent produces "only 2% of the global emissions causing climate change."

"Today in Sub-Saharan Africa, only a bit more than 40% of the people, not even half of the people have access to electricity," Birol stated, explaining that over "900 million [people] in Africa use premature ways of cooking." This leads to around 500,000 premature deaths annually, especially among women, due to the emissions produced through the use of premature fuels, such as coal, wood, and undeveloped biomass.

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During his inauguration of the fifth anniversary edition of the Egypt Petroleum Show (EGYPS 2022), His Excellency Egyptian President Abdel Fatah El Sisi urged developed countries to provide economic support for Africa's energy transition and to extend the transitional period for the achievement of its renewable energy objectives.

El Sisi pointed out that Africa is running behind in its energy transition due to historical reasons. "The cost of fulfilling renewable energy commitments to address climate change is substantial. African countries [cannot afford such a cost]." He called for the decisions of the next UN Conference of Parties on Climate Change (COP27) not only to be reasonable and measurable but also to be fair.

EGYPS started on February 14th, taking place over three days at Egypt International Exhibition Center, under the patronage of the Egyptian President. The fifth edition of the Show is held under the theme "North Africa and the Mediterranean: Delivering Energy Today".

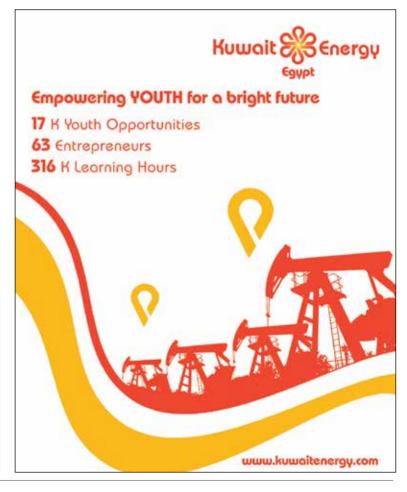
The Egyptian Minister of Petroleum and Mineral Resources Tarek El Molla highlighted the importance of cooperation between African countries to achieve their energy goals, stating that "the aspiration of our people must lead us all to join hands to realise their legitimate hopes for economic progress and development.

The cost of fulfilling renewable energy commitments to address climate change is substantial. African countries cannot afford such a cost.

HIS EXCELLENCY ABDEL FATAH EL SISI

President of the Arab Republic of Egypt







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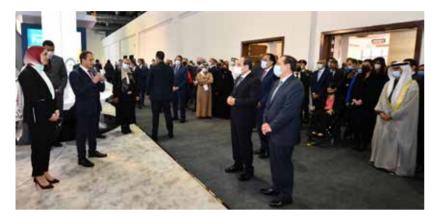




#### EGYPS 2022 DRAWS ROADMAP FOR AFRICA'S ENERGY TRANSITION

Continued from page 1 <





In his speech during the opening, El Molla praised the success of EGYPS' previous editions, pointing out that EGYPS has made its mark as an important date on the international energy calendar. He also highlighted some of the milestones achieved by the oil and gas sector in the past years, referring to its contribution to the Haya Karima ('Decent Life') initiative to ensure sustainable development.

The EGYPS 2022 opening witnessed a Ministerial and Policy Panel Discussion, which was moderated by Former Emerging Markets Editor at CNN and Professor of Business at NYU Abu Dhabi John Defterios. The distinguished panellists included El Molla; Dr. Amani Abou-Zeid, Commissioner of Infrastructure, Energy, ICT and Tourism at the African Union Commission; Aissatou Sophie Gladima, Senegal's Minister of Petroleum and Energies, Gabriel Mbaga Obiang Lima, Minister of Mines and Hydrocarbons at the Republic of Equatorial Guinea; and Chief Timipre Sylva, Nigeria's Minister of State for Petroleum Resources.

The panel tackled the topic of climate change and energy transition from an African perspective. During the panel, El Molla explained the huge contrast among the 54 African countries as some do not have the ability to effectively exploit their resources, while some lack the infrastructure required for energy transition. Therefore, the minister stressed the importance of unifying efforts with regards to the energy transition in order for Africa to have a voice at the upcoming UN Climate Change Conference 2022 (COP27).

Dr. Abou-Zeid noted that "17 countries in Africa produce natural gas. 70% of the African petroleum is exported and not benefited from in local transformative articles or energy generation. 45% of natural gas in the continent is exported."

Lima agreed that there will be difficulties in pushing Africa to cut down on its use and production of petroleum and natural gas, pointing out that "Africa needs to have our own green plan, not the European green plan.

Commenting on the energy prices crisis, Chief Sylva said that "the main issue [is] the rate at which they are taking out investments in the oil sector was too fast and the development of renewables to fill that gap was also too slow."

The panel further talked about having African funding to help in energy development. Abou-Zeid said that "last June we were able to launch the African Market, which by 2040 will be the biggest global market for exchanging energy and connecting producing and demand areas through huge networks," adding that this project was supervised by Egypt and the African Ministerial Committee.

Dr. Abou-Zeid also praised the Haya Karima initiative as it works on the three priorities required to develop the African Continent, which are water, energy, and digitalisation.

During his opening speech, dmg events President Christopher Hudson expressed his delight that the event was "graced by the presence of the president of the Republic of Egypt, H.E. Abdel Fattah El Sisi, highlighting not just the importance of the next three days for the energy sector not only for North Africa and the Mediterranean region, but its importance to the global energy sector and the role that Egypt plays in that sector."



EGYPS 2022 witnessed the participation of over 450 international and regional exhibiting firms. The exhibition this year featured 25 international oil companies (IOCs), national oil companies (NOCs), and integrated energy companies (IECs), which reflects the growing confidence in Egypt and its significant role in the region. The exhibition also features seven foreign country pavilions displaying innovative technologies and industry solutions.

"The Egypt Petroleum show has become and grown to become a significant annual gathering of energy industry, which connects the international community with speakers, exhibitors, and attendees from over 60 countries this week," Hudson noted.

The conference witnessed the participation of 11 petroleum and energy ministers from different countries, 19 heads of major international oil and energy companies, and eight leaders of major international petroleum organizations, led by Organization of the Petroleum Exporting Countries (OPEC), the International Energy Agency (IEA), the Eastern Mediterranean Gas Forum (EMGF), Organization of Arab Petroleum Exporting Countries (OAPEC), African Petroleum Producers' Organization (APPO), the Union for the Mediterranean, the Mediterranean Energy Observatory, and the World Energy Forum.

In all of its editions, EGYPS has enjoyed remarkable success in bringing energy leaders together and standing out as one of the most prominent oil and gas events  $\,$ in the Mediterranean region and North Africa. As Egypt has been confirmed to host the United Nations Climate Change Conference (COP27), this year's edition comes at a critical time to help convene the industry's transition.









### CELEBRATING YEARS OF SUCCESSFUL COOPERATION: AN INTERVIEW WITH CHEVRON'S CEO CLAY NEFF

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# How would you describe Chevron's journey in Egypt since the 1900s until today?

Chevron is one of the world's leading integrated energy companies and we have a strong 84-year heritage operating in Egypt since 1937. We believe affordable, reliable and ever-cleaner energy is essential to achieving a more prosperous and sustainable world. Today, Chevron is present in all sectors of the value chain; upstream, midstream and downstream. Chevron markets lubricants under the Caltex® brand and has a strong upstream portfolio with operating interests in a number of offshore exploration blocks. We are proud of our long-standing partnership with Egypt, and we are continuing to build a strong portfolio of future growth opportunities that can generate competitive returns while lowering the overall carbon footprint.

#### What are the opportunities you see in Egypt?

Chevron has a storied history in Egypt, and the country is of strategic importance to Chevron in Africa. Throughout the years, we have focused on the downstream sector that included domestic fuel retail stations, regional aviation fuels sales, marine bunkering and lubricants manufacture and sales under the "Caltex" brand in Egypt. In 2014, Chevron repositioned its portfolio to focus solely on its growing lubricants business in Egypt. The company has downstream operations in its 100% owned and operated 216,000-barrel (31,000 ton) lube oil blending plant located in the 4th Industrial Zone in 6th October City. Chevron Egypt Lubricants S.A.E. has been manufacturing and marketing lubricants and greases for many decades in Egypt to a wide range of commercial, consumer, industrial and marine customers.

#### Egypt's oil and gas basins offer significant hydrocarbon prospects and have the potential to play an important role in Chevron's upstream strategy.

In 2020, Chevron entered the Egypt upstream sector. We have a strong exploration portfolio with operating interest in three Mediterranean offshore blocks in separate consortiums in the North Sidi Barrani Block, North El Dabaa Block, and Nargis Block, as well as an operating interest in Block 1 in the Red Sea. Our portfolio in the country was further strengthened with the Noble Energy acquisition, adding non-operating working interest positions in the North Cleopatra and North Marina blocks offshore Egypt's Western Mediterranean.

# What is your involvement in Egypt's ambitious plan to become the East Mediterranean's gas main exporter?

With Chevron's acquisition of Noble Energy, we have gas sales which have helped set Egypt on the path to becoming a regional energy hub in the Eastern Mediterranean. Chevron is also an active member of the Eastern Mediterranean Gas Forum's (EMGF) Gas Industry Advisory Council.

Demand for gas in the Eastern Mediterranean continues to grow. It's widely acknowledged that it's a fuel that will continue to displace coal for power generation to reduce carbon emissions, and as

economies grow in the region and beyond, demand will continue to support further development.

When you have a large, low-cost resource base adjacent to large economies, there will be ways to move the gas to market in a manner that's competitive. This fits in with Chevron's strong commercialization capabilities, and it's a very important resource for the future of the region.

# Are you looking to expand your collaboration within the local market other than in gas?

In Egypt as in other host countries, we are guests, and we approach this with the utmost respect and humility. We understand that living and working in Egypt is a privilege. And we can never achieve our objectives alone, so our strategy has always been to reach out and to partner with others. The Egyptian Ministry of Petroleum and Mineral Resources is our chief partner in the country. We appreciate the crucial role that MinisterTarek El Molla and the ministry staff play in helping to make Chevron's operations in the country successful.

#### What is your outlook for Egypt 2022?

We will continue to provide the needed gas to help make Egypt a regional energy hub, and we are keen to expand our Downstream presence in the country by strengthening the Caltex brand and recapturing market share in Egypt through our premium fuels and finished lubricant offerings via targeted partnerships, brand licensing opportunities, and supporting in-country growth.

We are committed to mutually beneficial partnerships, and we are proud to be known globally as a partner of choice. In this spirit, we support Egypt's desire to become a regional gas hub. We believe that the best is yet to come, that the future holds great promise, and there is no better place to be than the cradle of civilization that is Egypt.

#### Where does Egypt stand in Chevron's plan for energy transition in the region?

Individual companies are taking a variety of approaches while working toward a lower carbon future. We see Egypt having a lot of potential for lower carbon businesses.

We believe we are well positioned with an oil and gas business that is highly profitable, supports our financial position, and targets a 35 percent reduction in upstream carbon intensity by 2028 from 2016. To advance our 2050 net zero aspiration for equity upstream Scope I and 2 emissions, we're taking actions to reduce the carbon intensity of our portfolio, investing in many greenhouse gas reduction projects intended to reduce methane emissions and flaring, as well as improve energy management. We are supporting our energy transition strategy by tripling our planned total capital investment to \$10 billion through 2028.

Chevron intends to be a leader in efficient and lower-carbon production of traditional energy – in high demand today and for years to come – while growing the lower-carbon businesses that will be a bigger part of the future like hydrogen, carbon capture and storage, renewable fuels and offsets.



#### How can you help Egypt to become a larger energy producing country?

We see potential to find more energy in Egypt's offshore. For this reason, we are an operator in four offshore blocks and a non-operational partner in two other offshore blocks.

Chevron has a long history of delivering world-scale, challenging projects by being a good partner and working with our host countries. As part of our partnership, we transfer scientific, technological and operational knowledge to our host countries, working with partners, government ministries, educational institutions and other organizations to share what we know, contribute to the training of local talent, as well as the development of projects that generate income for local communities.

Partnership and technology transfer are critical to our success wherever we operate, and we believe our strong technology capability differentiates our performance.

#### Can you talk about any of the recent discoveries you have in Egypt?

During 2020, Chevron entered the Egypt upstream sector by acquiring four oil and gas exploration blocks with a 90% owned and operated interest. Block 1 in the Red Sea, North Sidi Barrani, North El Dabaa and the Nargis blocks in the Mediterranean Sea hold a combined acreage of approximately 3.2 million net acres (13,114 sq km). The company also has a 27% non-operated interest in the North Cleopatra and the North Marina blocks with approximately 450,000 net acres (1,828 sq km) in the Mediterranean Sea.

Our exploration programs in the country are aligned with Chevron's long-term strategy to find and develop resources that will help meet the world's growing energy needs. We look forward to working together with our partners and supporting the development of Egypt's energy sector through these exploration programs.

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تحــت رعـايــة فـخـامــة الـرئـيــس عـبــد الـفــتــاح الـسـيــســي رئـيــس جـمــهــورية مـصــر الـعــربـيــة HELD UNDER THE PATRONAGE OF HIS EXCELLENCY ABDEL FATTAH EL SISI, PRESIDENT OF THE ARAB REPUBLIC OF EGYPT

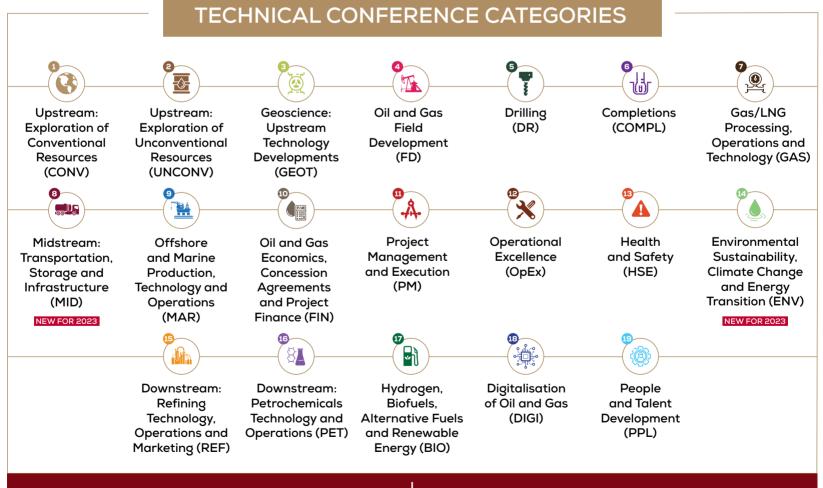


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#### TRATEGISING REGIONAL ENERGY FUTURE

EGYPS Strategic Conference on the first day drove high-level dialogues promoting international cooperation with energy majors, industry organisations and governments to create a connected, monetised and decarbonised pathway for the region's emerging markets and deliver upon the energy needs of today.

The conference witnessed the participation of six energy ministers, namely: Cyprus, Jordan, Greece, Yemen, Israel, and the United Arab Emirates (UAE). The conversations were also led by representatives from the Organisation of the Petroleum Exporting Countries (OPEC), Organisation of Arab Petroleum Exporting Countries (OAPEC), the Eastern Mediterranean Gas Forum (EMGF), the Union for the Mediterranean (UfM), African Petroleum Producers' Organisation (APPO), the Gas Regulatory Authority, and the Mediterranean Energy Observatory.

#### The Road to Recovery through Regional Cooperation

The first ministerial and policy panel discussion hammered on the new industry landscape, which is no stranger to cyclical downturns. The discussion, which highlighted the road to industry recovery through forward looking cross-border cooperation, witnessed the participation of H.E. Minister of Petroleum and Mineral Resources Tarek El Molla, H.E. Minister of Energy and Infrastructure of the United Arab Emirates Suhail Mohamed Al Mazrouei, H.E. Minister of Energy Israel Karine Elharrar, and H.E. Minister of Energy, Commerce and Industry Republic of Cyprus Natasa Pilides.

Aside from cross-border cooperation, the first and most anticipated question that the panellists delved into was whether we are going to see oil prices of over \$100 per barrel or not. For El Molla, it seems likely although he hopes that prices do not jump to these levels. The Emirati minister attributed what is driving prices in an upward trend to the geopolitical tensions surrounding major exporting companies such as Russia and Ukraine. But he warned not to blow things out of proportion until both countries' negotiations prevail.

As the surging prices are not necessarily linked to production, panellists agreed that cooperation is key in overcoming any tensions, spearheading the road to recovery. "On the regional basis, we hope to have the Eastern Mediterranean as the major exporter of natural gas, so it doesn't depend only on Egypt," El Molla said, adding that in the context of the East Med countries, maximising and optimising regional resources ensures that gas is monetised while existing infrastructure utilised.

The panellists further strategised on how to supply gas to Europe, keeping an open mind to the future prospects of that potential. But as for the time being, El Molla elaborated on Egypt's plans and timeline to send natural gas to Lebanon, which is currently in the making and is planned to reach our neighbours promptly. Sharing the same sentiment, Israel's minister said that it is making waves in its regional exports, adding that if it reaches Lebanon, "then great!"

Likewise, Cyprus and UAE's ministers assured that interconnectivity is the right path to recovery and energy transition. To establish an energy market, every country should not look separately at itself, rather collaborate to bring in more investments. However, "we believe that we should use less," Mazrouei said, emphasising that reducing consumption is one way of saving the planet.

#### Ensuring Energy Prosperity, Stability and Supply

As the East Med is no longer a pipe dream, the opportunities for natural gas changed the dynamics of investments horizons. The second East Med-focused session of the day highlighted the implications of hydrocarbons investments in relation to the geopolitical agenda, in addition to the supply and demand crunches that disrupt the market in times of crises.

Panellists sharing their climate-centric policy changes were: Minister of Petroleum and Mineral Resources Tarek El Molla, Minister of Energy and Mineral Resources, Hashemite Kingdom of Jordan Saleh Al Kharabsheh, Minister of Oil and Minerals Republic of Yemen Abdul Salam Baaboud, and Greece's Secretary General for Energy and Mineral Resources Alexandra

To strike the right balance between the energy transition and regional cooperation, El Molla said, "policymakers and economists in the country need to understand [that] because of the pandemic we were short of investments. Accordingly, we are not able to avail the supply to meet the demand. Otherwise, we wouldn't have seen the spike in the prices."

The debate on global warming seems a bit one-sided, the panellists indicated. "In parallel, we need to explain that in order to do this we need the resources, we need the funds, we need the technology and we need the time, so our role is to explain, to advocate and to educate on how we could strike the right balance," El Molla added.

In terms of a more balanced approach to the transition, Greece said it is pursuing one of the most ambitious and challenging strategies in these energy transition periods "but we have to be realistic at the same time, [which means] that natural gas will inevitably be an indispensable source of energy for Greece for a significant period of time," Sdoukou said.

However, a balanced approach to achieve the objectives of energy transition may also require a more dramatic departure from tradition than some may think. Bringing about the improvements that need to happen could involve a paradigm shift that challenges the industry's traditional norms, a topic which the next session chose to address.





#### **Shifting Traditional Models:**

The third strategic panel entitled "Net-Zero: Shifting Traditional Paradigms" witnessed a fruitful discussion tackling several topics including how oil and gas companies, government leaders and business executives have been working to reduce global greenhouse gas (GHG) emissions, avoid methane leaks, create a platform for low-carbon hydrogen production, remove investments barriers, and deploy low-carbon technologies for carbon capture, utilisation and storage (CCUS).

During the session which was moderated by CNBC Anchor Hadley Gamble, bp's CEO Bernard Looney stressed the significance of identifying clearly what energy transition is. "In that transition, it is really important that we satisfy three criteria for energy; it has to be cleaner, to be reliable, and to be affordable," he explained. Looney said that the companies are trying to help solve that problem.

For his part, John Christmann, CEO and President of Apache Corporation, discussed his company's efforts to reduce carbon emissions in Egypt and worldwide. He mentioned that Apache is looking forward to growing its investments in Egypt.

Lorenzo Simonelli, Chairman and CEO of Baker Hughes, underlined the global understanding of climate change. He also highlighted the importance of natural gas utilisation for net-zero emissions goals.

Antonio Pietri, President and CEO of AspenTech, emphasized the role of new technology and artificial intelligence (AI) in energy transition elaborating that "AI opens a whole new area of opportunities, value creation and sustainability". He noted that upstream and refining production requires machine learning capabilities and deep learning.

#### Global Energy Dialogue Role in Industry Transformation:

Lately, the world is interested in energy transition and seeking to set ambitious goals for reaching net-zero emissions. However, the immediate needs for all forms of energy, including hydrocarbons, remain constant. Furthermore, the pandemic fast-tracked the actions towards climate change which called the governments and industry organizations to change their historical policies and frameworks for the sake of energy transition.

In this regard, the fourth panel highlighted the importance of the industry as a part of the solution to climate-change and energy transition. Meanwhile, the panel discussed how to mitigate future energy crises and the fluctuation of market prices due to future global uncertainties.

During the panel discussion moderated by CNN's Former Emerging Markets Editor John Defterios, Secretary General Organization of the Petroleum Exporting Countries (OPEC) Mohammad Barkindo affirmed the importance of the conversation between oil companies and organizations, insisting that it should be global and inclusive. "More importantly, it should be focused, driven and guided by the science, data, and the facts not by politics or emotions," Barkindo clarified.

For his part, Secretary General of the Gas Exporting Countries Forum (GECF) Mohamed Hamel referred to the importance of natural gas especially in energy transition saying "it will continue to play a crucial role in alleviating nation poverty, fuelling economic growth, expanding prosperity and contributing to the protection of the environment".



Houda Ben Jannet Allal, General Director of Observatoire Méditerranéen de l'Energie (OME), stated that natural gas, which used to represent 20% of the energy mix for Mediterranean countries, now makes up 40%. She focused her discussion on highlighting the importance of natural gas. "Renewables are expanding everywhere but natural gas is the fuel of choice of the petroleum countries today and we have huge resources," Jannet Allal added.

Additionally, Omar Farouk Ibrahim, Secretary General African Petroleum Producers' Organization (APPO), affirmed that having modernisation dialogues between nations is essential and should be taken more into consideration.

Furthermore, Osama Mobarez, Secretary General of the East Mediterranean Gas Forum (EMGF), highlighted the importance of energy transition acceleration, especially in the Mediterranean region, noting that this part of the world has a good energy mix. "Studies are pointing out that only solar energy in MENA region would be capable to provide power to whole Europe and MENA area," Mobarez said. He added that the region naturally has adopted the right approach in energy transition through relaying more on natural gas and renewable energy.

From his part, Nasser Kamel, Secretary General of the Union for the Mediterranean (UfM), expressed his pleasure that Egypt will be hosting COP 27 this year as it will be strategically and geopolitically well-positioned in both the African and Mediterranean regions. He stressed on the importance of the countries' commitments to the decisions taken in such events which will help in energy transition.

Regarding investments, Joseph McMonigle, Secretary General of the International Energy Forum (IEF), advised the organisations to take the right decisions carefully when it comes to investments based on a deeper understanding of the market.

#### Strategic Roundtable Discussions

At the end of the first day of EGYPS, several roundtables were conducted to examine ways of maximising hydrogen utilisation as one of the most effective sources of clean energy and to identify the best ways for downstream expansion as well as promoting energy transition.

The first roundtable, entitled "Hydrogen Production, Storage, Transportation and Trading", sought to highlight insights on the global and regional motives to accelerate commercial hydrogen technologies, compose policy regulations and certifications in addition to establish the infrastructure able to carry and export hydrogen in a safe way.

The session was presented by Luc Vandenbulcke, the CEO of Dredging, Environmental and Marine Engineering NV (DEME), and Manuel Kuehn, Siemens Energy's Senior President, Head New Energy in Middle East and Africa

The second roundtable, entitled "Driving Downstream Expansion", discussed how the petrochemical industry continues to expand as it is crucial for daily life, considering the new strategies and initiatives for carbon emission reduction to decarbonise the downstream value chain.

The session that was presented by Ahmed El Khalifa, Undersecretary for Projects at the Egyptian Ministry of Petroleum and Mineral Resources, and Andrea Beckers, Country CEO, Executive Board Member at Thyssenkrupp Industrial Solutions, showcased the region's efforts in developing sustainable and transformative business models and innovative technologies to expand its downstream sector.

The third roundtable, entitled "Accelerating Energy Transition", addressed policies and strategies relating to organisational restructure and infrastructure enhancements that will enable a smooth energy transition.

The roundtable was introduced by Amru Alabidi, Worley's Senior Vice President for Oman, UAE, Iraq and North Africa, and Mohamed El Tahan, CEO Assistant of Technical Affairs Gas Regulatory Authority (GASREG).

The roundtables were ended by a session entitled "Sustainable Energy Finance" which focused on sustainable financing as a global priority for the energy transition. The session addressed how the governments and the financial sector can work together with the energy industry to formulate the right policies and regulatory frameworks for accelerating the energy transition.

The discussion was led by Todd Wilcox, CEO of HSBC Egypt and Ahmed Kouchouk, Egypt's Vice Minister of Finance for Fiscal policy and Institutional Reform.

@Egypt Petroleum Show





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#### **KUWAIT ENERGY EGYPT: STRENGTHENING ENERGY MARKET COOPERATION**

#### AN INTERVIEW WITH KUWAIT ENERGY EGYPT'S PRESIDENT KAMEL AL-SAWI

Playing an essential role in tightening the bonds of oil and gas cooperation, Kuwait Energy Egypt has been widely considered as one of the industry's most important investors. Kuwait Energy Egypt's President Kamel Al-Sawi discusses his company's interests in Egypt and the new opportunities that they are currently

#### Could you explain Kuwait Energy's plan to grow its investments in Egypt?

Since 2019, Kuwait Energy Egypt has been paying special attention to growing its portfolio in Egypt, whether through its current assets or new acquisitions. The team is actively screening the market for new opportunities and in 2021, our sister company, United Energy Egypt, took part in the bid round and successfully acquired Block 11 in the northern part of the Western Desert. We believe that this block has good potential and will add value to the current portfolio. On the other hand, Kuwait Energy Egypt was keen to extend the BEA development lease for another 15 years after the expiration of 25 years in December 2021.

Kuwait Energy Egypt also has a heavy capital investment work programme to increase the production and reserves of its current assets. Our five-year plan, from 2021-2026, considerably focuses on exploration activities to reveal all the potential of the areas. We have newly acquired 3D seismic for one of the assets and the 2022 budget includes 3D seismic for one of our mature assets, in addition to several plans for seismic reprocessing and other G&G studies. Kuwait Energy Egypt has also executed water injection in two assets and plans to carry out this project in the third one to maximise the value and reserves replacement ratio for the Egyptian assets. Yet, there is still a big appetite for acquiring new assets in Egypt, so we are planning to participate in the new bid round and evaluate different new opportunities.

#### What did Kuwait Energy Egypt do to enhance its operations in brownfields?

We realised that "Area A" faced increasing challenges of declining oil rates with a high contractual base line, complex compartmented structure, high risk for exploration, high operational cost and old infrastructure. Multi-disciplinary efforts spanning geology through production operations came up with opportunities for rejuvenating the field and cohesive workflows to change the way analysis, modelling and optimisation are performed in order to enhance results. Besides drilling 37 development and 17 exploratory wells, we focused on conducting rejuvenation applications such as re-entry of SI wells making a gain of 1 MMstb up-to-date, introducing 3.25" down hole pumps and PCP pumps which effectively increased well productivity and lifetime of well lift system, enhancing well intervention and artificial lift optimisation leading to a significant decrease

in Opex and upgrading production facilities and fire-systems to be up to the level of the required HSSE standards.

Also, we performed new 3D Seismic reprocessing in 2017 including merging and tie-ins with available 3D and 2D surveys in order to get every advancement in reservoir characterisations and seismic interpretations and hence reveal the potential of these assets which was reflected in successful three exploration wells during the period 2018-2019 added to the previous discoveries since inception that are reached to 34 discoveries.

All these initiatives have secured a leading role for Kuwait Energy Egypt in brownfield management.

Kuwait Energy has thankfully enjoyed a lot of success here in Egypt. How does Kuwait Energy aim to give back to the communities in which it operates through CSR initiatives?

As responsible corporate citizens, we play an active role in supporting social causes through a mix of social investments in health and wellness, education excellence, women and youth empowerment, and environment. We constantly verify the way we approach social responsibility to ensure more sustainable initiatives are implemented that can help build a better future for the community. Our journey has witnessed various contributions with our success partners Misr El Kheir, AUC, El Orman Association, SPE and AAPG and other partners who have a shared sustainable prosperity, bringing together the best of what Kuwait Energy Egypt can deliver to meet the community's needs.

From 2011 until now, we have succeeded in transforming the lives of more than 96,500 people, while implementing multiple projects among community investment programmes that cover providing healthcare, microfinancing and economic growth projects, besides witnessing educational development in both schools and universities reaching a total number of 357,895 learning hours.

Kuwait Energy Egypt will continue making a positive contribution to society while minimising its impact on the environment to achieve the EGYPT 2030 vision set by the Ministry of Petroleum and Mineral Resources. Our belief in the importance of serving our communities goes to the very top of our organisation and our people-first philosophy is enshrined in our management systems and processes.

What attracts companies like Kuwait Energy to the Egyptian market the most and is there room for improvement?

Besides the strategic location of Egypt, several parts of the country have favourable geology



and have proven, working HC systems which can be materialised depending on our qualified team in Egypt. The cost of a barrel is relatively low, and the terms of the production sharing agreement are fair.

The petroleum sector is one of the most critical sectors and the Egyptian government continues to make progress on improving the investment climate. The Ministry of Petroleum and EGPC are showing great flexibility and cooperation in supporting IOCs and attracting more investments. Kuwait Energy Egypt's management and team have built very strong relationships with the main stakeholders in the country

The room for improvement would be to provide investors with more incentives to explore in frontier and high-risk areas and for all contracts to improve the cost recovery process to be faster.

#### What is your insight for EGYPS 2022 and how will it impact Kuwait Energy's investments in Egypt?

EGYPS is one of the exceptional events for oil, gas and energy taking place in Egypt. Kuwait Energy Egypt is a constant participant and sponsor for this exhibition and conference since its first version in 2017, as it has proved to be the perfect place where you can network and connect with fellow industry peers in the region. The different conferences are important to get insights on the industry vision, short- and long-term strategic plans, challenges and possible reforms and policies being implemented.

STAND NUM.: 3B50

HALL 3





# Helping customers meet energy supply and demands







#### **HELPING STEER EGYPT'S ENERGY SECTOR** IN THE RIGHT DIRECTION

AN INTERVIEW WITH NESR CHAIRMAN AND CEO SHERIF FODA



For years, NESR has maintained its solid reputation as one of the leading forces in the global energy sector. With its participation at EGYPS, NESR Chairman and CEO Sherif Foda discusses his company's noteworthy accomplishments and commitments to the oil and gas industry.

#### In light of EGYPS' Hydrogen & CNG Zone, tell us about the ESG (environmental, social, governance) and sustainability accomplishments of NESR?

NESR has achieved in ESG & sustainability both internally and also externally from a commercial perspective. Internally, the company published its flagship ESG report in 2021, and established a rigorous data collection & operational improvement programme across key E, S & G buckets. This effort was proudly exemplified by NESR's recently announced sustainability-linked loan with HSBC, the first such 'ESG loan' for an OFS company in the MENA region. Commercially, the company is leading the rapidly evolving upstream decarbonisation & energy transition trends through its ESG Impact business segment with technology partnerships of the best-in-class innovators.

#### What were some of the most remarkable milestones along NESR's journey in the oil and gas sector?

NESR was the first pure-play MENA oilfield services provider to be publicly listed in the US, with 2017's first SPAC having connected these crucial equity capital markets to the operations of Gulf Energy (Oman & GCC) and National Petroleum Services (GCC, North Africa & Asia). As the largest, indigenous 'National Champion' of the MENA region, NESR has effectively supercharged a leading in-country value (ICV) strategy with global investors looking to help NESR continue to grow and reinvest in its people, technology, and communities. NESR has achieved a revenue CAGR of over 20% since 2017, above the spending trend and with sector-leading margins. Finally, through its new ESG Impact segment, the company has succeeded in bringing revolutionary technology to MENA upstream across water (Salttech & CleanTeQ), emissions detection (Qube), and flare capture in testing services.

#### What does NESR expect to achieve in Egypt during 2022?

NESR aims to build on its growth momentum in 2021 and bring new technologies, while the Industrial Services capabilities of SAPESCO offer

NESR the opportunity to export this expertise into broader MENA. Finally, ESG Impact, and NESR's Flare-to-ForestTM project concept are of particular focus in Egypt given the country's leadership in decarbonisation and the impending COP27 in 2022. NESR believes that it can transform the Egyptian O&G industry from a consumer to supplier of industrial resources through the integration of flare capture (to power), high salinity water treatment (to freshwater), and salt recovery technologies. The industry can deliver water, salt, and even plant trees to benefit local communities, all from by-products that would otherwise be wasted and disposed of in upstream operations. We believe we have an obligation to give back to the community and contribute to our beloved country and its great people.

#### What are NESR's most significant CSR achievements?

As captured in the inaugural NESR ESG Report, key CSR achievements can be found in the individual in-country value (ICV) initiatives across each country. For example, NESR is a key leader in workforce localisation in every country in MENA, and also features the most locally-rooted manufacturing & supply chain footprint. The company also invests heavily in local R&D, having broken down on its state-of-the-art R&D facility NORI (NESR Oilfield Research & Innovation), located in Saudi's Dharan Techno Valley (DTVC).

#### Could you please share with us the latest projects that NESR has executed in Egypt?

We continue to complete our Oilfield Services portfolio offering in Egypt by bringing in more product lines and technologies. This includes our latest Fracturing capabilities and expanding our Drilling Services with the addition of Cementing, Drilling Fluids and Directional Drilling Services. We are also expanding our capabilities in the existing services and technologies as seen in the recent award of multiple cased hole logging and tubing-conveyed perforating contracts with some of the major operators in Egypt. We have also delivered two Early Production Facilities (EPFs) early in the year. We are actively working with one of the major operators in Egypt on a large produced-water treatment and flare-gas capture prospect that carries a substantial ESG impact under our Flare-to Forest initiative, as we continue to establish and grow our various ESG Impact technology offerings to the Egyptian O&G industry.



#### To what extent can EGYPS help NESR achieve its goals?

Strategically for NESR, EGYPS could not be a more crucial platform at a more critical time in the company's strategic evolution. With oil prices strengthening, the expectation is that improving activity levels in Egypt will afford NESR and other oilfield services providers the opportunity to showcase new technologies & capabilities, and EGYPS is a much-needed forum to have these discussions with operators.

#### Could you please share your opinion of EGYPS as an international platform that bolsters cooperation among major companies worldwide?

As a country, Egypt is not only a clear leader in decarbonisation initiatives (e.g. Zero Flare by 2030), but is also crucially supportive of international operators and foreign investment to maximise the potential of the Egyptian O&G industry. Egypt is the crucial Mediterranean hub for gas as one of the leading transition fuels, and has the capacity of the best-in-class LNG plants. EGYPS is especially important in the context of Egypt's hosting of COP27 in November 2022, and NESR believes that collaboration between major global O&G companies during EGYPS will be critical in ensuring a successful COP27 summit. Service companies and their forward-thinking operator customers must be bold in committing to outside-the-box technology and projects during EGYPS, so that fruitful progress can be further highlighted during COP27 later in the year.

STAND NUM.: 2F40

HALL 2





14 - 16 FEBRUARY 2022 | EGYPT INTERNATIONAL EXHIBITION CENTER

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#### **DELIVERING ENERGY TODAY, THE TECHNICAL WAY**

The first day of the EGYPS Technical Conference had a flow of discussions aimed at giving insight into the conference's theme "Delivering Energy Today and Shaping the Future Energy Agenda". Each technical presentation aimed at providing new and innovative solutions under the umbrella of the conference's theme.

The technical session was co-chaired by Wael Korosh, Drilling and Completions Technical Advisor, Halliburton and Ahmed Atif, EUG Project Manager, Schlumberger. The technical session entitled "Smart and Digital Solutions" discussed various essential points that would aim to revolutionise the technical section of the oil and gas industry. For over a couple of decades, smart solutions have been used in the petroleum business to achieve a better understanding of petroleum production processes and, as a result, operational efficiency. With that, the technical session included three imperative and interesting presentations.



The first presentation by Islam Zaki Ibrahim, Instruments and Control Maintenance Section Head, Egyptian Projects Operation and Maintenance (EPROM), Egypt, addressed "Industrial Internet of Things (IIoT) data integration while mitigating cybersecurity risks".

Ibrahim began his presentation with an introduction about the importance of the Industrial Internet of Things (IIoT) in the oil and gas industry. Ibrahim said that some of the benefits of IloT included "Using big data analysis for air-coal mix injection profiles during the cycle that  $% \left( 1\right) =\left( 1\right) \left( 1\right$ automatically adjust the excess of air, avoiding waste of unburnt fuel increasing the combustion efficiency up to 6%."

Ibrahim also mentioned that, from the business viewpoint, the IIoT attends to the concerns of the identification of stakeholders and their



business visions, values, and objectives in establishing an IIoT system in its business and regulatory context.

He found that cybersecurity is mainly known as a practice through which systems, networks and programmes are protected from any



form of digital attacks; and because this is a common concern in the oil and gas industry, it is essential to ensure that such sensitive data is neither stolen, lost or damaged.

Ibrahim insisted on the importance of cybersecurity by saying that "These cybersecurity attacks are usually aimed at accessing, changing or destroying sensitive information such as extorting money from users or interrupting normal business processes. Implementing effective cybersecurity measures is particularly challenging today because there are more devices than people, and attackers are becoming more innovative."



He concluded his presentation by saying that the IIoT has many advantageous features in the oil and gas industrial sector. These included, but were not limited to, ease of deployment, scalability, quick decision-making processes and big data compilation monitoring and analysis.

The second presentation addressed "Transforming Digital Twins Through Innovation". The speaker was Emad Gebesy, Senior Solution Consultant MENA at Aspentech in Qatar.

Gebesy started off by introducing operational excellence with performance engineering through case studies.

Additionally, Gebesy noted that offline digital twins have some benefits such as identifying targets to achieve maximum energy recovery, reducing energy consumption through heat integration, optimising the





performance of new and existing heat exchanger networks and improving sustainability and reduction in the overall carbon footprint.

Gebesy said that "Before making a scope, we do some screening and option selections [...] and based on that we can find the optimal solution." He then added that "the advantage of any data in the field is that we can use it, along with its maths and physics calculations, to create a difference between independent and dependant correlations."

Gebesy concluded by saying that "The end-user in the offline digital twins may have no offline digital experience or technical experience, such as technicians or non-engineers, however, for the online digital twins requires technical experience and a trained background as it needs visualisation."

Ben Oudman, Director and Regional Manager, DNV GL, CEMEIA concluded the session with a presentation on "Creating trust and value from digital twins".





He introduced his idea about digital twins by providing his interpretation of a digital twin saying that, "a digital twin is a virtual representation of a system or asset that calculates system states and makes system information available, through integrated models and data with the purpose of providing decision support over its lifecycle."

Oudman explained that there is a lack of trust in digital twins as human users to give the final say and call when a decision is needed. For this reason, it is crucial to increase user trust in digital twins as the technology becomes progressively more accurate and efficient.

He elaborated by mentioning that it is essential to have a quality indicator to act as a "self-diagnostic indicator that reports the trustworthiness of the results from the Functional Element." By implementing a quality indicator, the digital twins' level of trust would increase accordingly.

Oudman concluded by saying that "The organization needs to be ready and mature in order to have a successful execution."

# TECHNICAL CONFERENCE DAY 2, TUESDAY 15 FEBRUARY 2022

ROOM1 ROOM2 ROOM3 ROOM4

10:00 - 11:30



Session 13: Advancements in downstream refining



Session 14: Operational innovations in Gas/LNG



Session 15: Innovative drilling solutions



Session 16: Upstream geotechnology developments

11:30 - 13:00



Session 17: Improving downstream economics



Session 18: Tackling gas processing challenges



Session 19: Mitigating well engineering challenges



Session 20: New technology case studies

14:00 - 15:30



Session 21: Shift towards downstream sustainability



Session 22: Biofuels and synthetic fuels advancements



Session 23: Novelties in completions technologies



Session 24: Tapping into unconventional reservoirs

15:30 - 17:00



Session 25: Petrochemical supply chain management and new technologies



Session 26: Successful renewable energy projects



Session 27: Addressing completions challenges



Session 28: Technology applications for unconventional exploration

TUESDAY 15 FEBRUARY

**TECHNICAL SESSION** 





#### GOLD **SPONSOR**



#### **PROMISING INVESTMENT PLANS: AN INTERVIEW** WITH DAVE THOMAS. CHEIRON'S CEO

#### How encouraging do you find the business atmosphere in Egypt currently?

In two words - very encouraging. From a macroeconomic perspective, under the stewardship of a government driving to balance business incentives with social considerations, the Egyptian economy has been able to withstand the hardships imposed by the Covid-19 pandemic better than most others. With the sustained progress made over the past several years on the economic reforms, inflation is largely under control, foreign reserves are stable and GDP, which remarkably stayed positive last year, is fair set to grow.

Within the Oil & Gas industry, the Ministry, EGPC, EGAS and Ganope are always ready to discuss issues and find pragmatic solutions to help promote investment and grow the country's production. This approach, coupled with the stable fiscal and regulatory framework and hydrocarbon potential in the country, means that Egypt continues to be a very attractive investment area for the industry. This is clearly demonstrated by the recent entry (or return) of some of the Majors, the level of interest in the bid rounds, the active secondary asset market and the number of new projects related to the "Energy Hub" vision.

#### What is the basis upon which Cheiron defines its strategic priorities and capital allocation?

Our key strategic priorities are developed during Shareholder and Board discussions and cover areas such as the company's growth ambitions, investment focus areas, technology strategy, risk management processes, approach to sustainability issues and people development. Once this framework is set, our capital allocation process is very conventional and relies on economic screening to high grade the investment opportunities, coupled with various types of risk assessments depending on the investment under review.

#### Could you highlight some of the latest technologies and techniques that Cheiron applies in its assets?

We always try to keep abreast of any new technologies which can be used on our various fields and have seen some interesting new applications over the recent years.

For example, we have started to use composite pipelines in Norpetco and South Ramadan field operations, significantly reducing installation and procurement costs and improving the long-term operability of the flow lines.

On the drilling front, we are using remote real time data monitoring to help manage the operations and have been deploying some state-of-the-art directional drilling tools supported by our contractors. Advances in the remote monitoring and control of drilling tools means that it is now possible to drill directional wells without any specialist directional drilling support at the well site and this is an area we are keen to look into.

Other very interesting technologies we are actively using, and which are worth highlighting, include the use of artificial intelligence for seismic data interpretation and nano technology for EOR applications in Mexico.

#### Can you highlight some of the factors which can make a successful mature field operator?

In the Egyptian operating environment, I think the key is being able to work closely with the JOC management teams to create a common vision and motivate staff and contractors to continually find ways to improve the business.

It is also critically important to maintain a strong focus on HSES performance, which requires real commitment, coupled with appropriate policies, procedures and standards and the discipline to consistently apply them. This is true for any E&P operation, but particularly so for mature field operations where the infrastructure is often relatively old and failure risks can be higher.

A large part of the solution is to have good asset integrity management systems in place, including appropriate audit and inspection processes and rigorous preventative maintenance programmes.

Once these fundamentals are there, one can start to think about the opportunities to add value through further reservoir development investments, the application of new technologies and streamlining work, contracting and procurement processes.

Finally, there has to be an exceptionally tight focus on cost control throughout the operations, but this also has to be balanced with a recognition that certain investments must be made for safety or environmental reasons or to deliver longer term operational efficiency.

#### Cheiron recently acquired Western Desert assets from Shell, what are your E&P plans for these assets in the coming 5 years?

The next few years are going to be exciting. Our ambition is to return Bapetco's gross production to around 120 kboepd over the next year or so (levels not seen on a sustainable basis since 2018) and, with a reasonable level of appraisal and exploration drilling success, we believe production can be increased even higher.

To achieve this, we will be investing quickly in the assets and, with EGPC's, Bapetco's and our Partners' support, we plan to increase the drilling rig count in the fields from 2 to 5 by early next year and bring in additional workover units.

In the current business environment, we can easily envisage sustaining this level of rig activity over the next five years and completing well over 200 new wells during this period.



Initially, the rigs will be mainly focused on infield and near field opportunities but, in the second half of 2022, one of the rigs will move to drill exploration wells in the three new exploration concessions which we acquired as part of the asset portfolio. These three blocks are operated by our partner, Cairn, and have some good exploration potential.

Alongside the rig programmes, we will be performing various facilities related projects, including the tieback of undeveloped gas discoveries to the existing infrastructure and debottlenecking some of the facilities and flowlines

Beyond this, Cheiron has a very strong focus on safety and the environment and, more broadly, the global sustainability agenda.

Bapetco's safety record is very good and we will be looking to help the organization continue or, if possible, even improve on their historic level of performance.

From an environmental perspective, we will be implementing a number of initiatives designed to reduce Green House Gas Emissions through the elimination of flaring and venting and minimizing the use of diesel fuel for power generation. Another focus area will be enhancing the produced water disposal arrangement for all the fields.



EGYPT CONTINUES TO BE A VERY ATTRACTIVE INVESTMENT AREA FOR THE INDUSTRY. THIS IS CLEARLY DEMONSTRATED BY THE RECENT ENTRY OR RETURN OF SOME OF THE MAJORS, THE LEVEL OF INTEREST IN THE BID ROUNDS, THE ACTIVE SECONDARY ASSET MARKET AND THE NUMBER OF NEW PROJECTS RELATED TO THE "ENERGY HUB" VISION.



STAND NUM.: 2B40 HALL 2





9 - 11 MAY 2022 | ABU DHABI, UNITED ARAB EMIRATES

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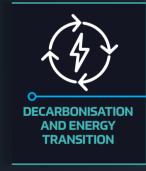




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#### STRATEGIC CONFERENCE AGENDA

#### **DAY 2.15 FEBRUARY 2022**

#### **GLOBAL BUSINESS LEADERS SESSION**

Unlocking energy independence through connected oil and gas markets

10:30 - 11:30



Eng Alaa Elbatal CEO Egyptian General Petroleum Corporation (EGPC)



Mathios Rigas CEO Energean



Ali Rashid Al Jarwan CEO Dragon Oil



CEO Capricorn Energy





Eithne Treanor Presenter EGYPS 2022

#### **GLOBAL BUSINESS LEADERS SESSION**

#### Natural gas as a catalyst of the low-carbon transition



Dr Eng Magdy Galal Egyptian Natural Gas Holding Company (EGAS)



Executive Vice President LNG West & CCUS



Vice President Exploration **ExxonMobil** 



Chief Operating Officer Wintershall Dea



President Chevron Middle East, Africa, South America **Exploration** and Production Company

Moderator:

11:30 - 12:30



Vice Chairman **Tellurian** 

#### **GLOBAL BUSINESS LEADERS SESSION**

#### The shifting downstream landscape



Jean Sentenac President and CEO Avens



Hisham Selim Chairman Suez Methanol Derivatives Company (SMD)



Pierroberto Folgiero CFO Maire Tecnimont Group



Paul Marsden President, Energy Bechtel



Saad Helal President and Chairman **Egyptian Petrochemicals** Holding Company (ECHEM)



Dr Gavin Towler Vice President and CTO Honeywell Performance Materials and Technologies & Honeywell UOP

Moderator:



**Eithne Treanor** Presenter **EGYPS 2022** 

#### **GLOBAL BUSINESS LEADERS SESSION**

#### Connected energy ecosystems: billion-dollar savings

14:30 - 15:30



Sara Akbar Chairperson



Walid Sheta President Middle East and Africa

**His Excellency** Tarek El Molla

Minister of Petroleum and

Mineral Resources

**Arab Republic of Egypt** 



President Northern Africa Region Enterprise Busin Group Huawei



Osama Global Industry Specialist



Sherif Foda Chairman of the Board & CEO NESR - National Energy Service

Moderator.



15:30 - 16:30

CFO Bilateral US Arab Chamber of Commerce

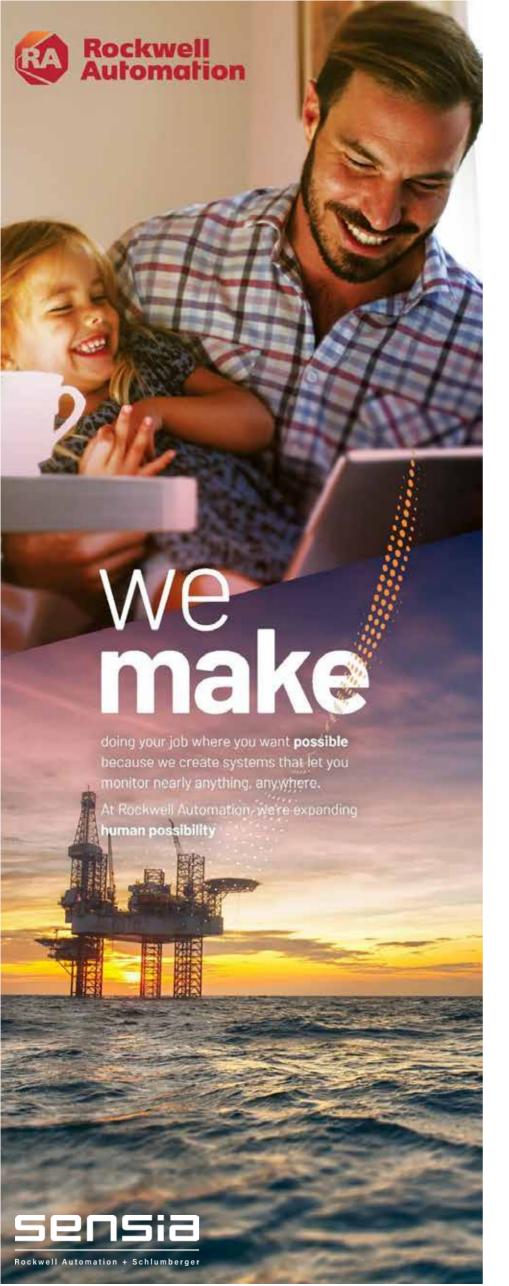
#### MINISTER INTERVIEW

Egypt: powering from strength to strength

Moderator:



**Eithne Treanor** Presenter **EGYPS 2022** 





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## PETRONAS DEMONSTRATES UNWAVERING CONFIDENCE IN EGYPTIAN ENERGY SECTOR

#### AN INTERVIEW WITH PETRONAS CEO SHAHRIZAL BIN SHAHARI

GOLD SPONSOR PETRONAS

It takes confidence to steer a ship through a storm as heavy as the global pandemic, but with the Egyptian market looking promising, many companies have remained committed to investing in the country's potential. With a keen interest in the Egyptian energy sector, PETRONAS CEO Shahrizal Bin Shahari outlines the importance of EGYPS for his company and how they plan to make a positive impact on sustainability.

#### After two years of pausing the Egypt Petroleum Show, what are your insights and expectations for EGYPS 2022?

Since 2017, when PETRONAS first participated at EGYPS, we've witnessed EGYPS' growth from strength-to-strength, from the growing number of global participants as well as support from major IOCs and Trade Mission groups from developed nations. Moreover, EGYPS offers numerous opportunities for collaboration and exchange of expertise with others. Our continued participation at EGYPS also demonstrates PETRONAS' confidence in Egypt's growing energy sector and continue to explore pathways in support of the government's aspiration.

# PETRONAS is a sponsor of EGYPS this year. In that light, how do you think the platform will add to PETRONAS and be an opportunity for achieving your targets?

PETRONAS has been present in Egypt since 2001. With over 40 years of experience across the integrated oil and gas value chain, we offer innovative solutions and game-changing technologies from Upstream, Downstream, and very recently the Gas and New Energy division to deliver efficient, reliable, and sustainable energy to the world

This is the third year that PETRONAS is participating in EGYPS as an exhibitor. Our participation is a good opportunity for us to showcase our integrated, end-to-end capabilities and promote our products and solutions to the region. It is also a good platform for us to introduce new solutions across the LNG value chain, from supply to delivery of LNG to customers.

Some of the customer-centric solutions which we offer and will be showcased at EGYPS include LNG break-bulking activity via ship-to-ship transfer to serve LNG buyers with requirements for smaller LNG parcels. PETRONAS also is the first in the world to own and operate two Floating LNG facilities to unlock gas reserves from remote, marginal and stranded gas fields.

PETRONAS continues to seek opportunities for collaboration and partnerships across the energy value chain and we believe EGYPS will enable us to reach out to potential customers and partners in the region.

PETRONAS have been inking deals, like the one with Shell for carbon capturing, and working on sustainability. What are the

# latest updates in your sustainability profile so far? And what are your sustainability plans for Egypt?

Protecting our planet and conserving its natural resources for future generations have become increasingly important and a key ambition for PETRONAS. That's why sustainability is at the core of how we conduct our business. The journey toward zero carbon is still at an infancy stage. It can be expensive, technically difficult, and [we will have to deal with] lots of uncertainties for us to get there.

At PETRONAS, we are committed to a holistic approach in sustainability, and to leverage innovation to pursue our sustainability agenda which encompasses four lenses – Continued Value Creation, Safeguard the Environment, Positive Social Impact and Responsible Governance. We believe that creating a sustainable future will require collaboration, partnership, and commitment from all.

As we venture forth towards our Net Zero Carbon Emissions 2050 goal, we will be looking into multiple pathways to reduce our carbon footprint. From how we run our LNG assets, to sustainable LNG solutions such as carbon neutral LNG, while also growing our renewable energy and hydrogen business.

# In light of establishing the PETRONAS Misr for Lubricant Oil, in your opinion what will PETRONAS add to the Egyptian lubricant market?

PETRONAS MISR Lubricants is a strong showcase of PETRONAS's willingness to enrich its heritage and roots in Egypt by introducing its global lubricants arm to play in the Egyptian lubricants market in partnership with the wholly owned subsidiary of EGPC MISR PETROLEUM.

PML has a unique product formulation developed particularly for the Egyptian and African markets in PETRONAS state of the art Research and Technology Centre in Turin, Italy. Building on extensive experience coming from OEMS and different channels and segments and with strong focus on high tech performances product driven by the experience in motorsport, we trust that this company with such support from both shareholders will add a significant value to the market and to the customers in Egypt.

In Egypt today, PETRONAS is investing in LNG, E&P, Lubricants, and Downstream, which sector are you most attracted to, and is there any other new area you would like to explore?

Our current business and focus are mainly on Upstream and Downstream which covers E&P, LNG and Petrochemicals. In response to the energy transition towards a low carbon economy, PETRONAS has created a new business division focusing on Gas and New Energy (G+NE) to complement our Upstream and Downstream



The intent of establishing G+NE is for us to be a one-stop-centre for cleaner energy solutions, guided by our Statement of Purpose, "A progressive energy and solutions partner enriching lives for a sustainable future". Under G+NE, we provide reliable cleaner energy solutions ranging from natural gas, renewable energy, and hydrogen.

It is also worth mentioning that we have been partnering with Mercedes-AMG to bring even more technical excellence and innovation into the world of oil and gas. PETRONAS has been the Title Sponsor of the Mercedes-AMG PETRONAS Motorsport team for the past nine years. Since then, we have also been playing a crucial role as a Technical Partner, working closely with the team to continuously improve on the Winning Formula and deliver the ultimate performance on and off the race tracks. Our Fluid Technology SolutionsTM – fuels, lubricants and functional fluids were developed alongside the team's engines and powered the Silver Arrows to win eight consecutive World Constructors' Championships from 2014 – 2021.

# Based on the developments in your business in Egypt, what are your future investment plans for Egypt?

PETRONAS would like to thank the Egyptian government, especially the Ministry of Petroleum, EGPC and EGAS for the continuous support to our business in the country.

PETRONAS' current focus is to maximise our producing assets as well as progressing on the data acquisition for the exploration blocks together with operators. We are confident and believe Egypt has a promising future energy market that will enable it to attract more investors internally and externally. PETRONAS will continue to seek business opportunities to grow and contribute to the country's energy sector.

STAND NUM.:

3C28

HALL 3

#### **SIEMENS** COCCY



#### **Egypt Service Center**



Spanning 36,400 square meters, Siemens Energy Egypt Service Center is a first-of-its-kind located at Ain Sokhna, in the heart of the Suez Canal Economic Zone. It includes a Tooling Center, Repair Center, a warehouse for strategic parts as well as hosting The Egyptian German Technical Academy.

The Service Center is another step to drive employment, training and localization in the Egyptian market. It delivers industry-leading service to customers in Egypt and across the region by providing maintenance to all energy rotating equipment – including gas turbines, steam turbines generators and compressors, to ultimately shorten outage times and increase the availability.

The Center is equipped with Siemens Energy latest state-of-the-art technologies to repair and overhaul sophisticated equipment that would have been sent overseas for maintenance. This helps to cut down service time, eliminate shipping costs and ensure a shortened delivery cycle.

All repair center machines and equipment are digitally connected to the equipment supplier for remote support and system check. In addition of available tools for remote service to support power plant outages for times when availability is difficult (e,q. Covid-19 pandemic).

The center also provides Virtual Maintenance Training using Virtual Reality kits. In the future, the center is set to encompass an array of digital expert centers to provide first line support for remote Expert Center for turbines.



#### Egyptian German Technical Academy

Building skills to be #CompetentfortheFuture!

The Egyptian German Technical Academy (EGT Academy) was established as part of the Strategic Alliance signed between

Siemens and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) to support occupational training in Egypt.

The EGT Academy -equipped with the latest technologies in 3D printing, virtual reality, digital twin and simulation- offers trainees the opportunity to develop skills and acquire experience in real-life hands-on situations, both theoretical and practical. The academy offers industy specific trainings to Technicians and Engineers in advanced technical skills that are critical to the Egyptian economy.



IN THE FRAMEWORK OF THE STRATEGIC ALLIANCE BETWEEN









#### **ABOUT THE DIGITALISATION IN ENERGY ZONE**

Over the last few years, the oil and gas industry in Egypt is facing intense pressure to adapt and improve operational efficiencies as oil prices continue to fluctuate. Under the country's Modernisation Programme, Egypt has been preparing the foundations of a modernised oil and gas sector based on fundamental pillars, including leveraging the enablement of digitisation to respond to challenges in the market.

The recent emergence of the coronavirus (COVID-19) pandemic has highlighted that digitalisation in the oil and gas sector has become a necessity as opposed to a mere option. According to the experts, digitalisation is already improving the safety, productivity, accessibility, and sustainability of energy systems, and it is changing markets, businesses and employment. However, newer projects have had to make way for smarter working methods that will allow existing operations to continue.



14-16 FEBRUARY 2022

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With more and more oil and gas companies recongnising the need to include digitalisation in their operations, EGYPS 2022 hosts an exclusive Digitalisation in Energy Zone for exhibitors to showcase their digital innovations and talk about innovative technologies transforming businesses.

#### **EXHIBITING COMPANIES INCLUDED:**













#### DAY 2, TUESDAY 15TH FEBRUARY, 2022

EUG as Big Data platform 11:00 - 11:30



Geo Esraa nabil Egypt Upstream Gateway (EUG)

**Detecting Changes with Near Real-time Imagery** 11.45 - 12.15



Esri North Africa

Supporting Decision making for Upstream & Downstream 12:30 - 13:00 **Operations** 



Abeer Medhat Quality Standards for Information Technology



Islam Nasr Quality Standards for Information Technology

Integrated Engineering and 14.00 - 14.30 **Digital Solutions** 



Manar Helal



FNIDDI





Mohamed Elbadry **ENPPI** 

Libyan Petroleum Institute Digital Transformation 14:45 - 15:15



Ezzeldin Maarouf LPI

Connected Production™ Lift Surveillance 4.0 15:30 - 16:00



Thony Brito KMT for Industrial Services

Calculating Rates and Converting to BHP in Gas/Condensate Wells - Case Studies 16.15 - 16.45



Oilfield Data Services

17:00 - 17:30 Aurion, Predicting a Greener Tomorrow



Mahmoud Samir Tachyus

17:45 - 18:15 IOT, Big Data & Al: Energizing the Petroleum Industry



Heba ElQadi Vision Valley (Esri Partner)

18:30 - 19:00

Controlling your Engineering Information and Work Processes across the Lifecycle of your Projects and Assets



Karim Bounid OpenText Corporation





GROWTH WITH ENERGY



TUESDAY 15 FEBRUARY

10:30 - 11:30

**Global Business** Leaders Session

Unlocking energy independence through connected oil and gas markets

11:30 - 12:30

Global Business Leaders Session

Natural gas as a catalyst of the low-carbon transition

13:30 - 14:30

Global Business Leaders Session

The shifting downstream landscape

14:30 - 15:30

Global Business Leaders Session

Connected energy ecosystems: billion-dollar savings 15:30 - 16:30

Minister Interview

Egypt: powering from strength to strength

**HSE IN ENERGY** 

**TUESDAY 15 FEBRUAR** 

SESSIONS

10:00 - 10:10

and opening remarks

10:10 - 10:25

Keynote Latest strategies and programmes to aid physical, mental and social welfare

of people

10:25 - 10:40

Keynote Reducing carbon footprint and ensuring more climate conscious oil

and gas operations

10:40 - 11:25

Panel Setting up strategic priorities within HSE 11:45 - 12:10

Fireside chat Leadership strategies to ensure oil and gas companies are well prepared for the energy

transition

12:10 - 13:00

Panel discussion Environmental sustainability as the way towards a zero carbon future

14:00 - 14:50

Panel Ensuring employees' health and wellbeing within the entire oil and gas value chain

14:50 - 15:25

Fireside chat Technology and digitalisation as HSE catalysts within the oil and gas sector

15:25 - 16:15

\_ive Q&A The role of HSE leadership in the post-pande mic world

16:45 - 17:45 Global HSE Excellence in Energy Awards Ceremony

TUESDAY 15 FEBRUARY

10:00 - 10:15

Ministerial Reactivating global economies through

fiscal policies

10:15 - 10:30

Global Finance & Investment Awards Ceremony

10:30 - 11:15

anel discussio Bolstering international partnerships to boost energy investments and support project financing

11:15 - 12:00

Panel discussion Forward-looking financial strategies for the energy industry

12:00 - 13:00

Panel Advancing digital investments in the energy industry for cost efficiency and resource optimisation

14:15 - 14:45

Panel discussion Unlocking energy markets of the future: nvestments and regulations to support the hydrogen economy

14:45 - 15:30

Fireside chat Risks, returns, and regulations 15:30 - 16:15

Panel discussion Accelerating sustainable investments: challenges and opportunities in the path to net-zero

INVESTMENT

10:00 - 10:15

Opening keynote address

Equality - the evolving framework for global economic development

10:15 - 11:00

Panel discussion The equality

boardroom: Creating successful energy businesses of the future

11:00 - 11:30

Fireside chat

Gender mainstreaming as an enabler of global equality

11:30 - 12:15

10:15 - 10:30 Global Finance & Investment Awards Ceremony

Panel discussion

Being responsible employers: The significance of shifting from empowerment to equality and clusive diversity in the energy industry

12:15 - 13:15

Lightning talks and O&A Focused 10-minute presentations presentations
highlighting
energy company
strategies to
achieve gender
equality, inclusion
and diversity in their businesses

14:00 - 14:45

Panel discussion Women and men as enablers of the clean energy transition

14:45 - 15:30

Panel discussion

Empowering women's economic participation through receptive policies

WEDNESDAY 16 FEBRUARY EQUALITY IN ENERGY

SESSIONS

16:00 - 17:00

Global Equality in Energy Awards Ceremony

/EgyptPetroleumShow



#### ERENCES

#### **17** TECHNICAL CATEGORIES



Upstream: Exploration of Conventional Resources (CONV)



Upstream: Exploration of Unconventional Resources (UNCONV)



Geoscience: Upstream Technology Developments (GEOT)



Oil and Gas Field Development (FD)



Drilling (DR)



Completions (COMPL)



Gas/LNG Processing, Transportation, Operations and Technology (GAS)



Offshore and Marine Technology and Operations (MAR)



Oil and Gas **Fconomics** Concession Agreements and Project Finance (FIN)



Project Management and Execution (PM)



Operational Excellence (OpEx)



Health, Safety and Environment (HSE)



TUESDAY 15 FEBRUARY

TECHNICAL SESSION

Downstream: Refining Technology, Operations and Marketing (REF)



Downstream: Petrochemicals Technology and Operations (PET)



Biofuels, Alternative Fuels and Renewable Energy (BIO)



Digitalisation of Oil and Gas (DIGI)



People and Talent Development (PPL)

**ROOM 1** 

ROOM 2

**ROOM 3** 

**ROOM 4** 

10:00 - 11:30



Session 13: Advancements in downstream refining



Session 14: Operational innovations in Gas/LNG



Session 15: Innovative drilling solutions



Session 16: Upstream geotechnology developments

11:30 - 13:00



Session 17: Improving downstream economics



Session 18: Tackling gas processing challenges



Session 19: Mitigating well engineering challenges



Session 20: New technology case studies

14:00 - 15:30



Session 21: Shift towards downstream sustainability



Session 22: Biofuels and synthetic fuels advancements



Session 23: Novelties in completions technologies



Session 24: Tapping into unconventional reservoirs

15:30 - 17:00



Session 25: Petrochemical supply chain management and new technologies



Session 26: Successful renewable energy projects



Session 27: Addressing completions challenges



Session 28: Technology applications for unconventional exploration

10:00 - 11:30



Session 29: Innovation within HSF



Session 30: Asset maintenance and integrity



Session 31: Addressing characterisation challenges



Session 32: Developments in Enhanced Oil Recovery

11:30 - 13:00



Session 33: Successful waste management case studies



Session 34: Reducing costs, enhancing performance



Session 35: Rock physics insights



Session 36: Unlocking the potential of mature fields

14:00 - 15:30



Session 37: Advancements in occupational health and safety



Session 38: Enhancing efficiency and productivity



Session 39: Innovation in prospect evaluation



Session 40: Integrated development planning

WEDNESDAY 16 FEBRUARY TECHNICAL SESSIONS





#### **HSE IN ENERGY CONFERENCE AGENDA**

Lead Sponsor



Session Sponsor

#### **HALLIBURTON**



#### **TUESDAY 15 FEBRUARY 2022**

#### PANEL DISCUSSION

#### Setting up strategic priorities within HSE

10:40 - 11:25



Senior Vice President HSE and Carbon



Amir Gerges Vice President, Safety Royal Dutch



Hany Abdel Aziz Head of QHSES IPR Energy Group



Fatih Erdem Compliance Officer and QHSSE Director



Andre Erasmus MENAAP HSE SQ Region Manager Halliburton





FIRESIDE CHAT

#### Leadership strategies to ensure oil and gas companies are well prepared for the energy transition

11:45 - 12:10



Jessica Jackson
Vice President
Environment,
Health and Safety
Apache
Corporation



Nada El Sawy Cairo Correspondent

#### PANEL DISCUSSION

#### Environmental sustainability as the way towards a zero carbon future

12:10 - 13:00



Ghada Hammouda Chief Sustainability & Marketing Officer



James Fibbens
Vice President
and
Senior Project
Manager
Bechtel



Iman Hill
Executive Director
International
Association of Oil
and Gas Producers
(IOGP)



Randa Mounir Senior Climate Advisor British Embassy in

Moderator:



Ali Hegab Independent Oil and Gas Consultant

#### PANEL DISCUSSION

#### Ensuring employees' health and wellbeing within the entire oil and gas value chain

14:00 - 14:50



Mai Elnaggar Consultant in Endocrinology and Medical Rehabilitation, Former Medical Occupational Hedical Director



Yehia Ebrahim Oilfield Equipment HSE Leader Middle East, North Africa and India Baker Hughes



Lilian Mahfouz HSE Manager Egypt, Sudan and East Mediterranean Schlumberger

Moderator:



Sofija Janosevic Human Resources Director The Energy Year

#### **FIRESIDE CHAT**

#### Technology and digitalisation as HSE catalysts within the oil and gas sector

14:50 - 15:25



Hao Wang CTO Northern Africa Region Energy Business Unit Huawei Technologies



Sebastien Riez Cluster President North East Africa & Levant Schneider Electric

#### Moderator:



Hugh Maxwell
Fellow International Institute of
Risk and Safety
Management (IIRSM)

15:25 - 16:15

#### LIVE Q&A

#### The role of HSE leadership in the post-pandemic world





Hussein El Ghazzawy Senior Energy and Industry Consultant LYNX Strategic Business Advisors



Gamal Fathy
CEO Assistant for
HSE
Egyptian General
Petroleum
Corporation (EGPC)



Vassilis Tsetoglou Group Corporate HSE Director Energean



CEO Advisor on HSE
PETROJET



Carlo Ignazio Spadavecchia Executive Project Director Technip Energies





# GLOBAL HSE EXCELLENCE IN ENERGY AWARDS SHORTLISTED FINALISTS



#### BEST HEALTH PROJECT OF THE YEAR

SPONSORED BY HALLIBURTON



Innovative management techniques to address wellbeing during the pandemic



Well-designed Contractor Fitness to Work (CFTW) process



COVID-19 care programme



EDC COVID-19 campaign



#### BEST SAFETY PROJECT OF THE YEAR

SPONSORED BY





WND project a world-class safety programme



Improving safety performance through six safety leadership responsibilities



Remote sensing and AI to enhance inspection safety of CUI threat



Reducing HSE risk by using engineering controls



#### BEST ENVIRONMENTAL PROJECT OF THE YEAR



Methane reduction: Fugitive emissions – the hidden sources



Reducing greenhouse emissions and eliminating gas flaring



Plantation of 10 million wild trees in collaboration with the Environment Authority in Oman



Kingdom's first carbon capture utilisation and sequestration (CCUS) and CO2 EOR project



#### BEST COMMUNITY CARE PROGRAMME OF THE YEAR



BP Egypt West Nile Delta project: A force for good



'El Fararfa Water of the Sun' community development project



Livelihoods support and education enhancement in community schools project



TANAP giving back to our communities!

#### REGISTER TO ATTEND THE CONFERENCE & AWARDS CEREMONY IN-PERSON











# BRINGING TOGETHER THE PASSION AND TALENTS OF YOUNG PROFESSIONALS

On the first day of the fifth edition of EGYPS, 85 university students had the chance to attend the Young Professionals Programme. The programme was intended to provide them with clear insights into the industry they are about to join, enabling them to return to their universities and colleges with positive messages to pass to their colleagues. In addition, the students were able to exchange their opinions, meet young industry professionals, and share viewpoints with top executives from the world's leading oil and gas companies.

Meanwhile, Youth Talks as one of the programme's five pillars was attended by 120 students from several



14-16 FEBRUARY 2022

Sponsored by



universities including, Arab Academy for Science, Technology & Maritime Transport, Cairo University, Suez University, Future University in Egypt, Tanta University, Zagazig University, Ain Shams University, and Future University.









#### VISIT THE YOUTH ENGAGEMENT ZONE IN HALL 1

تحت رعاية صاحب السمو الشيخ خليفة بن زايد آل نهيان رئيس دولة الإمارات العربية المتحدة UNDER THE PATRONAGE OF H.H. SHEIKH KHALIFA BIN ZAYED AL NAHYAN. PRESIDENT OF THE UNITED ARAB EMIRATES





#### Abu Dhabi, United Arab Emirates

Supported By















#### SHAPING THE FUTURE OF THE ENERGY INDUSTRY

150,000

**Energy Professionals** 

2,200

**Exhibiting Companies** 

**52** 

NOCs, IOCs and IECs

28

Exhibiting International Country Pavilions

140,000

**Gross Sqm** 

12,000

Conference Delegates

1,200

Speakers

**250** 

Conference Sessions ADIPEC
has become a global
forum for our industry
to take stock and
compare notes on the
competitiveness,
not only of oil
and gas, but
also the technologies
and industries that
are springing up
from within

this industry."

HIS EXCELLENCY
MOHAMMAD BARKINDO
OPEC Secretary General

3 WAYS
TO BOOK
YOUR STAND

Contact us on +971 2 444 4909

Email us at adipec.sales@dmgevents.com



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#### FINANCE & INVESTMENT **SUMMIT AGENDAY**



#### **TUESDAY 15 FEBRUARY 2022**

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#### PANEL DISCUSSION

#### Bolstering international partnerships to boost energy investments and support project financing

10:30 - 11:15



Todd Wilcox HSBC Bank Egypt



Zakaria Dosso Managing Director Africa Energy Investments Corporation African Petroleum Organisation (APPO)



David Chi Vice President and General Manager Apache Egypt



Senior Vice President and Managing Director Egypt Wintershall Dea





Aida Araissi CEO Bilateral US Arab Chamber of Commerce

PANEL DISCUSSION

#### Forward-looking financial strategies for the energy industry

11:15 - 12:00



Director and



Head of Corporate Finance



James Smith CFO



Head of Finance





Dr Ahmed Mokhtar Managing Director **NBK Capital** 

#### PANEL DISCUSSION

#### Advancing digital investments in the energy industry for cost efficiency and resource optimisation

12:00-13:00



Karim Badawi Director Enterprise Digital Performance Schlumberger



Hoda Mansour Head of Business Process Intelligence EMEA South



Joey Deng CEO Digital Power Business Group Huawei Technologies Egypt



Ganesh Pattabhiraman Vice President Digital Transformation



Head of Digitalisation



Hany Moussa Business Solutions Director efinance



Ben Oudman Director and Regional Manager CEMEIA

DNV

#### PANEL DISCUSSION

#### Unlocking energy markets of the future: investments and regulations to support the hydrogen economy

14:15-14:45



Hanan Bakı Director, Energy Sector Head and Sustainability



Dr Samir Elkareish Vice Chairman, Energy Transition Egyptian Natural Gas Holding ompany (EGAS)



Christopher Frank Head of Strategic Business Development Africa & Asia Thyssenkrupp

#### Moderator.



Nada El Sawy Cairo Correspondent

#### **FIRESIDE CHAT** Risks, returns, and regulations



28

ıd Ali BinObo Dragon Oil



Khalil El Bawab Misr Capital

Moderator:



Dr Ahmed Mokhtar Managing Director
NBK Capital

/EgyptPetroleumShow

14:45-15:30







#### Supporting energy sector stability, globally and regionally

15:30 - 15:40



Eng Hani Salem Sonbol International Trade Finance Corporation (ITEC)

#### PANEL DISCUSSION

Accelerating sustainable investments: challenges and opportunities in the path to net-zero **SESSION SPONSOR** 



15:40 - 16:25



Regis Monfront Deputy CEO Crédit Agricole Corporate and Investment Bank



Naftogaz



Dr. Bushra Bataineh Infrastructure Development and Finance





#### **GLOBAL FINANCE & INVESTMENT AWARDS** SHORTLISTED FINALISTS



#### FINANCE LEADER OF THE YEAR



Ahmad Ali BinObood Chief Financial Officer Dragon Oil



Al-Said Mohamed Abu Seif Chairman Assistant for Finance **Egyptian Maintenance Company** 



General Manager Projects Costing and Support Services Khalda Petroleum Company



Finance Manager Wintershall Dea



#### FINANCIAL INSTITUTION OF THE YEAR

#### THE WINNER WILL BE ANNOUNCED AT THE AWARDS CEREMONY

#### 2022 AWARDS ADVISORY COMMITTEE MEMBERS



Dr Bassem Kamar Chief Economist Central Bank of the UAE



Vice Chairman Financial & Commercial Affairs Egyptian Natural Gas Co. (GASCO)



Helmy Ghazi Managing Director & Head of Global Banking HSBC Egypt



Nadir Imanov Commercial Director North Africa (Finance Planing & Commercial Operations)



# ABOUT THE EQUALITY IN ENERGY CONFERENCE AND AWARDS

From 2018 - 2020, the Egypt Petroleum Show discussed the significance of empowering women in the energy industry with the Women in Energy Conference & Awards. As we prepare for the future, there is a need to address broader issues surrounding equality, inclusion, and diversity in the global energy industry.

In alignment with the objectives of the Egyptian Ministry of Petroleum and Mineral Resources, EGYPS 2022 is delighted to announce the unveiling of the Equality in Energy Conference which will convene global leaders to discuss the challenges and opportunities for the energy industry to create an equal, diverse and inclusive workforce and further pave the way for a low-carbon transition.



#### **WEDNESDAY 16 FEBRUARY 2022**

Lead Sponsor



#### **GLOBAL EXPERTS SPEAKING IN-PERSON**



Her Royal Highness Princess Dr Moradeun Ogunlana UN Ambassador of Peace and Culture Founder and CEO African Women's Health Project International AWHDI Global Foundation



Christine Arab Country Head UN Women Arab Republic of Egypt



Iman Hill
Executive Director
International Association of
Oil and Gas Producers (IOGP)



Sahar Albazar Member of Parliament and Deputy Chair Foreign Relations Committee Egyptian House of Penrasentatives



| Maha Akeel | Strategy & Policy Advisor on | Gender Family and Social | Development | Intergovernmental agency



Eleanor Rowley
Managing Director, Egypt
Capricorn Energy



Dr Rabia Ferroukhi Director Knowledge, Policy and Finance Centre International Renewabl Energy Agency (IRENA)



Eric Oechslin Country Director International Labou Organisation (ILO)



Marina Wes Country Director Egypt, Yemen and Djibouti World Bank



Pakinam Kafafi CEO TAQA Arabia



Nicolas Katcharov Country Manager Egypt and Head of Energy Transition



Dawlat Hashem
Assistant Chairman for
Communications and IT
Egyptian Natural Gas Holding
Company (EGAS)



Barbara Rambousek Director – Gender European Bank for Reconstruction and Development (FRPD)



Kevin Edwards Chief Diversity an Inclusion Officer



Randa Esmat HR Assistant General Manager Enppi



Vidya Ramnath President – MEA Emerson



Latifa Aal Said Global HR Executive Director Baker Hughes



Nahla Arsenault Capex and Turnaround Lead Fertiglobe

#### **PROGRAMME SUMMARY**

10:00 - 10:15

#### Opening keynote address

Equality - the evolving framework for global economic development

12:15 - 13:15

#### Lightning talks and Q&A

Focused 10-minute presentations followed by Q&A with the speakers

10:15 - 11:00

#### Panel discussion

The equality boardroom: Creating successful energy businesses of the future

14:00 - 14:45

#### Panel discussion

Women and men as enablers of the clean energy transition 11:00 - 11:30

#### Fireside chat

Gender mainstreaming as an enabler of global equality

14:45 - 15:30

#### Panel discussion

Empowering women's economic participation through receptive policies

11:30 - 12:15

#### Panel discussion

Being responsible employers in the energy industry

16:00 - 17:00

Global Equality in Energy Awards Ceremony

#### REGISTER TO ATTEND THE CONFERENCE & AWARDS CEREMONY IN-PERSON



agyps.delegate@dmgevents.com







# GLOBAL EQUALITY IN ENERGY AWARDS SHORTLISTED FINALISTS



#### WOMEN IN LEADERSHIP



Alex Roberts
HSE Manager ESG
Schlumberger



Manal Messiha
Vice President



Nahla Arsenault Capex and Turnaround Lead Fertiglobe



Vidya Ramnath President - MEA



#### STEM STAR OF THE YEAR



Bashayer Aldakkan MSc Student Cornell University



Miral Tawfik
Doctoral Candidate and
Reservoir Engineer
Penn State University



Nourwanda Serour Research Assistant and PhD Candidate Western University



Rana Abdalla Master's Student Teesside University



#### **NEX-GEN FEMALE OF THE YEAR**







Abeer Wahaibi Senior Process Optimisation Engineer Petroleum Development Oman



Process Engineer
PETRONAS



Farah Darwish
Field Engineer and
Distributor Coordinator
Chevron



Serene Lock Lecturer Universiti Teknologi PETRONAS



#### HR CHAMPION OF THE YEAR



Deepa James Human Resources Leader



Randa Onsy HR Assistant General Manager Enppi



Tamer Essam Vice President Human Resources Schneider Electric



Zainab Elsaeed Sudan HR Manager and Egypt HR Enabler Schlumberger



#### EMPLOYER OF THE YEAR CHAMPIONING INCLUSION, DIVERSITY AND EQUALITY









**EXHIBITOR NEWS** 



14 - 16 February 2022 | Egypt International Exhibition Center

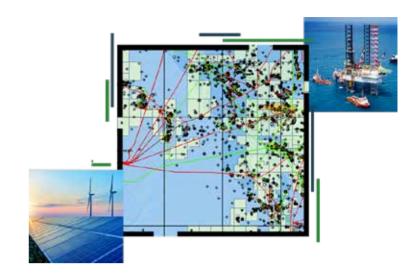
#### ESRI PROVIDES GIS TECHNOLOGY TO OIL. GAS INDUSTRY

Esri, a global market leader, is the largest supplier of geographic information system (GIS) technology to the oil and gas industry worldwide. The Redlands, California company was founded in 1969 as the Environmental Systems Research Institute. Today, The ArcGIS System is supporting the entire energy value chain with GIS.

Location data and analytics underpin every element of the energy industry from finding and developing resources to refining and transporting products to supporting sales and marketing efforts. Understanding and integrating location intelligence across your enterprise systems with GIS enable staff to gain more insights, drive intelligent operations, and deliver a safer and more sustainable business.

Leaders of Fortune 500 companies know digital transformation will be a major contributor to future business success. This is especially true for the energy industry where geospatial technologies, combined with datadriven insights, are transforming operations, improving efficiency, boosting agility, and enabling strategic decision-making at numerous points along the upstream, midstream, and downstream value chains.

Our services cover the upstream: unifying upstream workflows with GIS; midstream: strengthening midstream business in real-time; downstream: optimizing refining and distribution with GIS; Health, Safety, and Environment (HSE): protecting people, assets, and environment; renewable energy: producing clean, smart energy with GIS; as well as technology and innovation: driving digital transformation with GIS.



We look forward to welcoming visitors at EGYPS 2022 to our booth, where we would be delighted to answer any questions you might



STAND NUM.: 3H28 HALL3







#### THE MARKET'S FINEST HEATING SYSTEMS

Sigma Thermal Middle East is an engineering, design, manufacturer, and service company specialising in standard, and customised process heating systems for various industries, with high demand for oil and gas processing.

The Sigma Thermal brand was formed in 2007 in Atlanta USA, and in 2018 Sigma Thermal Middle East was incorporated as a base in Jebel Ali Free Zone, Dubai to service the demand of Europe, the Middle East, Africa, and Asia Pacific. Having a presence in the Middle East allows our company to better provide real-time resource interaction with our customers from all departments of our business from sales, engineering, project management, manufacture and site services.



EUROPE · MIDDLE EAST



Our key markets are the oil and gas sector, although we are not limited to this, we also provide services in multiple other market industries, such as general manufacturing, power generation and waste and wastewater to name a few. Please see our website for more information: https://www.

The global energy market is evolving which is both challenging and exciting, allowing opportunities to diversify our product technology and services. Whilst we will not be bringing any new products for the show, given the current climate situation it is increasingly important for industries like ours to evolve and adapt.

We are committed to enhancing our knowledge and expertise to make a positive contribution to change and reverse adverse effects on the environment. STME looks forward to participating in EGYPS for the second time. The exhibition has provided a lot of brand exposure and helped form connections and relationships in our market and region. The show allows us to showcase our products and services to attract clients and business interests globally- a perfect platform for keeping Sigma Thermal interconnected.

We can be found in Hall 2, stand number 2152, where our representatives will be there to connect and answer any questions.

STAND NUM.:

2152

HALL 2



Pan Marine Group provides full local support services to the Oil & Gas industry through our subsidiaries all over Egypt, our services are tailored as per our customers' requirements and include the following:

- **Provision of Offshore Support Vessels** (AHTS, PSV, CSV, ERRV, Tugs, and Crew Boats).
- Provision of Offshore Drilling Rigs.
- Supply Base Logistics.
- Pipe-laying Projects.
- Offshore Full Motion Compensated Gangways.
- Supplier of International Oilfield Machinery, Equipment, and Chemicals.
- Free Zone Warehouse Facility.
- Provision of Diving and ROV Services.
- Project and Military Permits.
- Vessels & Rigs Importation and Exportation.

- Bunkering, Lube Oil and Fresh Water Supply.
- Repairs, Maintenance & Dry Docking Services.
- Catering & Provisions Supplies.
- Sea & Air Freight.
- Customs Clearance and Brokerage Services.
- Inland Transportation.
- Supply of Local Crew Manning Services.
- Equipment Rental.
- Project Cargos.



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**EXHIBITOR NFWS** 



14 - 16 February 2022 | Egypt International Exhibition Center

#### **FUGRO TO EXHIBIT MARKET-**LEADING DIGITAL SOLUTIONS

Fugro's solutions include a fleet of autonomous vehicles that carry out high speed hydrography, geophysical surveys and remote inspections, in a fast and safe manner and with a reduced carbon footprint.



A global network of remote operations centres allows our onshore experts to manage offshore operations, transforming the way we deliver projects, and providing clients with fast access to Geo-data and actionable insights, enabling quicker and more informed decision-making from their offices

Integrated digital solutions, remote services and expert teams save project time and costs, and improve the safety of offshore operations, while delivering a comprehensive range of services, such as: geophysical survey services of rig sites, pipeline and cable routes, and offshore windfarms, identifying geohazards, reducing project risk and facilitating route and project design. Our services include marine geotechnical services to determine and manage the ground risk associated with marine project development using technical expertise, advanced exploration tools, field and laboratory testing, computer simulations and quantitative methods.

Our services further include meteorological and oceanographic (metocean) surveys reducing uncertainty in engineering design specifications and assisting operational planning, leading to reduced costs, and enhanced safety and operational efficiency. Moreover, we provide marine environmental services and consultancy: supporting infrastructure planning, consenting and development, environmental protection and resource management.

Fugro's services also include offshore positioning and construction support services satellite positioning and subsea metrology, supporting the installation of offshore structures, such as wind farms, production facilities, pipelines and cables. In addition, the company provides ROV inspection services of pipeline and subsea structures, acquiring HD and 4K subsea video and other inspection data, along with data processing, management and hosting. Besides, we provide subsea remote intervention tooling delivering standard and bespoke tools that are deployed by ROV to address remote intervention challenges in subsea oil and gas and renewable environments.

Levering digital, remote and autonomous solutions, Fugro provides integrated data acquisition, data analysis and consultancy services in order to unlock insights from Geo-data that facilitate the design, construction and operation of our clients' offshore assets in a safe, sustainable and efficient manner.

STAND NUM.: 2H74 HALL 2

#### TANMIA PETROLEUM COMPANY **OFFERS VALUABLE EXPERTISE**

Established in 2008, Tanmia Petroleum Company is a joint stock company incorporated under the laws of the Arab Republic of Egypt (A.R.E) specialised in the development, operation and maintenance of oil and gas fields and production facilities. Tanmia provides integrated services for companies in the petroleum sector and is owned by Petrojet, Ganoupe, Ennpi, EChem and EGAS.



Tanmia provides its services at the highest standards in the oil and gas industry, obtaining the ISO, 9001, 14001, 45001. Tanmia owns a 1500 HP Drilling rig which has been operating

successfully in the Egyptian market since 2011 and we have been using subcontractors workover rigs; Tanmia performed workover operations on more than 400 wells for petroleum sector companies.

Tanmia provides early production facilities (EPF) and fast-track production systems to enable our clients to obtain early financial benefits and provide real-time production data that helps our clients appraise their reservoir performance before installing permanent facilities.

Tanmia provides testing units (TMU) and highly-qualified professional expertise; in addition to well testing engineers and operators who will manage real-time monitoring of process conditions and data acquisition systems. This will separately monitor the process streams and process temperature, and pressure at critical points using highquality equipment.

Tanmia is a market leader in the flared gas recovery project. Tanmia utilised the flared gases (0.5 MMSCFD) at ESHPETCO field to generate (1.8 MW) almost 40% of the field's required electrical power and recovered about 50 bbl/day of NGL.

Tanmia provides Down Hole Completion Equipment & Services through an alliance with a well-known manufacturer (Giant Oil Tools - Canada & Star Petrotech - Singapore). Tanmia provides hydraulic SSD Packers, nipples, bridge plugs, control lines, chemical injection subs with check valves, all completion materials and services.

Tanmia is the one-stop solution for manpower supply service as we provide skilled manpower to all major oil and gas industrial sectors, for upstream, midstream and downstream projects, and also for offshore and onshore operations and maintenance activities.

STAND NUM.: 3F40 HALL 3

#### SUGEST PROVIDES SPECIALTY CHEMICALS' MANUFACTURING

SUGEST is one of Al Areefi Group's companies. Al Areefi Group was established in the 1980's. Today, Al Areefi Group includes companies specialised in chemicals trading, general and specialty chemicals manufacturing, construction, as well as medicines trading and catering. The chemical segment in Al Areefi Group includes Rawabi Marketing International Company (RMI), which is currently one of the top chemical suppliers in Saudi Arabia in terms of variety, quantity and quality of items.

Our chemical firms further include the National Company for Sulphur Products (NCSP), which manufactures through our production facilities in the Central Region; sulfuric acid (150000MT), sodium hypochlorite, LABSA, SLES. NCSP established in the Eastern Region (third industrial area KSA) is a formaldehyde plant for manufacturing formaldehyde (AF), UFC, SN, PF resin powder, UF Resin liquid, MF Resin liquid, sulfur bentonite, sodium sulfite and sodium metabisulfite.

Chemical firms under Al Areefi Group also include German Metal Surface Treatment chemical company (SUGEST). SUGEST was established in 2003 in Riyadh, Kingdom of Saudi Arabia as a specialty chemicals' manufacturer with production facilities in Riyadh and Dammam (KSA), including a detergents and disinfectants plant, a multipurpose plant for metal treatment chemicals, a multipurpose plant for paint, and a multipurpose plant for oilfield chemicals.

In 2009, SUGEST established an exclusive oil field chemicals manufacturing and blending production plant in Dammam, KSA. Manufacturing oil field chemicals like demulsifier, corrosion inhibitor, scale inhibitor, biocide, KHI, water clarifier.... etc. Establishing such a production plant in the Eastern Region intended

to cater to Saudi ARAMCO's oil field requirements with an express service.

SUGEST is currently starting growing its market share in Saudi Arabia and produces chemicals with Aramco, such as demulsifiers, corrosion



inhibitors, biocides, TEG, scale inhibitors. SUGEST approximate annual volume for demulsifiers 1400MT, biocides 1000MT and corrosion inhibitors 1000MT.

The company has an OFC research and development centre in the third industrial area, which includes four laboratories: a demulsifier laboratory, a corrosion& scale laboratory, a microbiology laboratory and a general laboratory.

STAND NUM.: 3E70 HALL 3





EXHIBITOR NEWS



14 - 16 February 2022 | Egypt International Exhibition Center

#### **EGYTRANS: A LEADER IN TRANSPORTATION AND LOGISTICS**

With more than 40 years of experience, Egytrans has been handling cargo with care, connecting businesses with customers and suppliers across the world. Egytrans prides itself in being a one-stop-shop company for logistics and freight services.

Today's energy market is more dynamic than ever, with demand expected to keep rising while resources become dearer and more diverse, and competition keener. The energy sector tends to operate in challenging conditions. At Egytrans, we understand those challenges and approach them with a sense of partnership with our customers.

Egytrans is a leader in offering bespoke and flexible solutions for its customer to enable their success. Our expert teams develop and implement integrated, multimodal transport solutions designed specifically for the complexities of each industry and even, when required, for each customer.

Egytrans offers customers the services necessary for flawless project execution. Our services include multimodal transport, domestic transport, customs brokerage, warehousing, cargo consolidation, sea freight, and air freight. Egytrans' solutions further include heavy lift, transport engineering (feasibility studies, route surveys), loading/discharging supervision as well as heavy lift transportation (lifting, inland, barge, ocean and turnkey project management).

The end-to-end service model ensures full supply chain visibility for our customers. Our teams are well trained and experienced to provide customers with the services they deserve. A flexible commercial model helps reduce costs.



Together with our customers, we develop a customized set of key performance indicators (KPI) to measure our performance on a regular basis and continuously improve our services.

STAND NUM.:

2B75

HALL 2





**EXHIBITOR NFWS** 



#### ECGS LEADS ITS WAY TOWARDS SUSTAINABILITY AND COMPETITIVENESS

For 13 years, the Egyptian Company for Gas Services (ECGS) has upheld its commitment to maintaining a high standard of performance in the petroleum services business. We have remained loyal to our core values which include integrity, honesty and accountability in all our dealings. Our valuable clients have been relying on us and continuously use our services for years, thanks to our distinguished, highly selected supply chain. From there, we have built an impressive reputation among petroleum sector companies.

The number of contracts achieved throughout our history witnessed great contributions to many segments of the Egyptian petroleum sector, mainly in services related to LNG shipping & trading services, crude oil shipping and trading services, petroleum products shipping and trading services, oil and gas marine services, drilling services, production support services, and HSE services

Maximising the participation of ECGS in the oil and gas market share, achieving impressive profits, and being one of the Egyptian leading oil and gas services providers in the next 10 years, forms the vision which we are dedicated to accomplishing. However, reaching these goals requires a set strategy and a commitment to the mission plan by striving continuously to apply up-todate technology in all aspects of our business operations. We are proud of the diverse selection of services that we offer to cater to the needs of the oil and gas market through a distinguished supply chain. In addition, our company works to demonstrate excellence in being committed to high health, safety & environmental (HSE) standards and maintains credibility in all business aspects.



Living up to the ECGS brand name is not possible unless we have a highcalibre team of elite professionals who thrive, remain energetic and ultimately understand their contributions and self-worth within the ECGS.

In conclusion, the ECGS aims to achieve the main goal of not only meeting our clients' expectations but exceeding them. Our prestigious position in the market is a result of the collective efforts of our trustworthy staff, encouraging shareholders and supportive authorities.

STAND NUM.: 3F28

HALL 3

# Welcome to all energies.

TotalEnergies promotes the employment and working conditions of people with disabilities.







#### CONNECTING THE GLOBAL ENERGY COMMUNITY









7 - 9 June 2022

5 - 8 September 2022

7 - 10 November 2022

13 - 15 February 2023











5 - 6 April 2022

26 - 28 April 2022

26 - 28 April 2022

9 - 11 May 2022

10 - 12 May 2022

GLOBAL ENERGY SHOW AWARDS GLOBAL ENERGY INVESTMENT GLOBAL FMERGY NEXT GEN



8™ EDITION
CHINA LNG, GAS
& HYDROGEN

June 8, 2022

7 - 9 June 2022

7 - 9 June 2022

June 2022

22 - 24 June 2022



4 - 7 July 2022



5 - 7 July 2022



20 - 22 July 2022



20 - 22 July 2022



3 - 4 August 2022



13 - 15 September 2022



5 - 8 September 2022



5 - 8 September 2022



5 - 8 September 2022



27 - 29 September 2022



27 - 29 September 2022



September 2022



18 - 21 October 2022



25 - 27 October 2022



7- 10 November 2022



7- 10 November 2022



7- 10 November 2022



29 November -2 December 2022



November 2022



2022



9 - 12 January 2024 www.dmgevents.com

202





EGYPS
HSE IN ENERGY
CONFERENCE AND AW

EGYPS
YOUTH
ENGAGEMENT
PROGRAMME

EGYPS
YOUNG
PROFESSIONALS

#### **EGYPS 2022 VENUE PLAN**



#### HALL 1

- Live Theatre
- HSE in Energy Conference & Awards Ceremony
- Equality in Energy Conference & Awards Ceremony
- Hydrogen / CNG Theatre
- Youth Engagement and Young Professionals Programme

DIGITALISATION IN ENERGY

- Visitor & Exhibitor Cafe
- Conference Coffee Break



• EGYPS Petroleum Club



#### HALL 3

- Delegate Lunch
- Digitalisation in Energy



#### SHUTTLE BUS TO AL MANARA

• Halls 1 - 3 to Al Manara



#### SHUTTLE BUS TO EXHIBITION HALLS

• Al Manara to Halls 1 - 3



#### REGISTRATION AREA

Halls 1 - 3



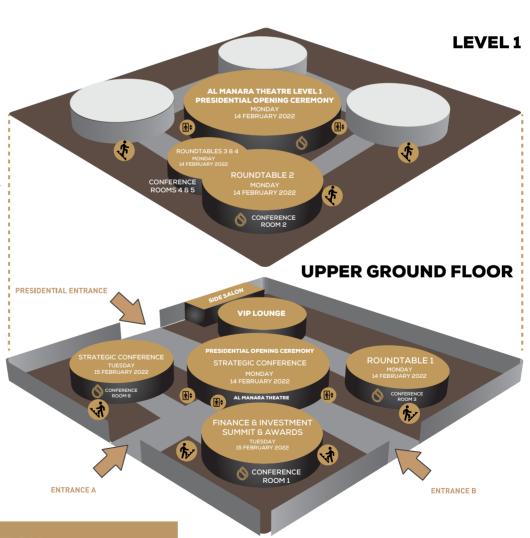
#### PLAZA 1

• Technical Conferences



#### AL MANARA

- EGYPS 2022 Presidential Opening Ceremony
- Strategic Conference
- Strategic Roundtable Discussions
- Finance & Investment Summit & Awards Ceremony
- Conference Coffee Break



EGYPS TECHNICAL CONFERENCE

H2

EGYPS PETROLEUM CLUB



#### **VENUE LOCATION:**

Egypt International Exhibition Center New Cairo, 5th settlement El Moshir **Tantawy Axis** 

Cairo Governorate



#### **EGYPS 2022 SUPPORTERS, PARTNERS AND SPONSORS**













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We can provide a portfolio of integrated solutions across the full gas value chain, from finding and producing gas through to the marketing of products. Shell technologies can help a country boost its economy by building up local gas-based industry. In addition, we bring skills transfer and people development which are key for creating in-country value. Shell plays a role in supporting the natural gas industry in many countries and is proud of how these strong, mutually beneficial relationships have developed.

