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MAPPING A FUTURE OF GREENER GROWTH IN ENERGY MARKETS



that "demand will continue to grow," stating that the world needs carbon capture as a solution. Meanwhile, Torres suggested that the industry should speed up the pace to ensure the security of supply.

On the other hand, Mahgoub urged investors to dive into Egypt's Hydrogen and renewables industry as a way to achieve energy security. "Egypt has all sources from land and atmosphere to invest in these projects. We open our hands for all investors to invest in such projects here in Egypt, and we have the atmosphere and the sun will always rise here."

On the second day of the Egypt Petroleum Show (EGYPS 2023), an enlightening Strategic Conference took place at the Egypt International Exhibition Centre.

The strategic conference successfully brought together industry leaders from several countries to tackle the global updates and trends in the oil & gas, and energy industries.

This conference highlighted the energy sector's challenges and opportunities, particularly in Egypt, Africa and the East Mediterranean regions.

Decarbonising the Industry

The strategic conference programme included a global business leaders' session 'Decarbonising the Industry' which discussed building a winning downstream portfolio as well as the alternatives like renewable feedstocks and where they sit.

The session's speakers included Jean Sentenac, President and CEO of Axens; Ibrahim Abdelqader Mekki Mahgoub, President and Chairman of Egyptian Petrochemicals Holding Company (EChem); Rich Sumner, CEO of Methanex Corporation; Jean-Philippe Torres, Senior Vice-President Africa at TotalEnergies; Andreas Shiamishis, CEO of HELLENIQ ENERGY;

and Cord Landsmann, CEO of thyssenkrupp Uhde.

The discussion tackled the significance of methanol in today's industries. Sumner indicated that methanol is essential for the renewable sector as it is used in solar panels, wind farms, and electric vehicles.

Meanwhile, Sentenac noted that "It is not easy, of course, to decarbonize our industry, and we have to realize that in Europe if we are able to do so and to reduce and make look out on biofuels, ... for a region able to do this one way or the other, this a transition."

Torres talked about the different strategies to meet the needs of different regions clarifying that for Africa the needs are to secure access to energy. "Our strategy is not the same at all in different geographies." Torres explained that based on their needs, in the African countries "we are looking up to produce realistically," and to ensure that the products sold there give "the maximum value to the society."

The future indicates a deep need for hydrocarbons to satisfy immediate energy needs, while minimising emissions. "In the next five to ten years, hydrocarbons are going to be around, and whether we like it or not, it is going to be there," Shiamishis stated. Additionally, Sumner declared

CONTINUED IN PAGE 3

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CONTINUED FROM PAGE 1



African Gas

The activities of the strategic conference further featured a fireside chat on African gas. The chat was a candid conversation tackling the opportunity of gas for the African continent. The fireside chat was a platform for Milton Catelin, Secretary General of the International Gas Union (IGU); Rashid Abdallah, Executive Director of the African Energy Commission (AFREC); and Mickael Vogel, Director & Head of Research at Hawilti, to share their views on the energy future of the continent.

The session talked about Africa's access to energy. Vogel noted that "even if [one] was to bring electricity for the 600 million people who live in the dark, even if every African household has access to clean cooking, [Africa] will still be energy poor."

Additionally, the session moved to discuss solutions for energy inaccessibility in Africa, despite its large reserves. Catelin explained the most important action that needs to be considered by African leaders is developing the existing fields and ensuring "adequate returns for the country itself, and ensuring that they are not just exporting the gas." Meanwhile, Abdallah highlighted several points including the fact that "Africa's energy transition is to move from no energy to energy." Additionally, he pointed out that Africa needs to work on infrastructure, investment policies, trade, and energy

access. "We need to put in place the right policy for investment," Abdallah said, adding "we need to boost our trade between African countries," so that, countries with surplus gas can provide those with low access to natural gas across Africa."

The Rise of Gas, LNG

The Strategic Conference included another global business leaders' session on the rise of gas and LNG, discussing the global scramble in a tight market with soaring prices.

The leaders in the LNG discussion included John Ardill, Global Exploration Vice President at ExxonMobil; Yossi Abu, CEO of NewMed Energy; Magdy Galal, Chairman of Egyptian Natural Gas Holding Company (EGAS); and Cederic Cremers, Executive Vice President LNG at Shell.

The attendees shared their insights on the current global trading environment. Cremers stated that the recent challenges in the energy market "showed us all in the world that we cannot take reliable secure energy for granted."

Accordingly, the choice of investments has been affected by the energy supply and demand. Ardill noted that "We are certainly investing in the upstream business at a sustainable growth rate, and we are also investing very heavily in the low-carbon solutions business."

The session further highlighted the region's agreements and partnerships to provide supply and be a hub for energy, as Egypt opens its additional capacity in the liquefaction plants for other countries in the region to export their production to Europe. Abu talked about boosting the infrastructure between the region's countries to boost exports, mentioning the LNG pipeline, which connects Israel and Egypt, stating that the Egyptian government and the Israeli government are adding an "onshore connection that will allow in total years the additional flow of 6 to 8 bcm."

Meanwhile, Galal assured attendees that the region is working hand in hand to secure supply. "Stability of supply will become a very important key factor in [the] years to come, and I think that this region can provide a stable supply of natural gas and LNG to the world. This is what we are keen to do."

Flexibility Remains Fundamental to Meet Emerging Challenges

As the entire industry is on a journey of change, energy security remains part and parcel of this journey with the aim to ensure the required stability in this domain. In the meantime, COP27, with its unified voice for energy transition and decarbonization, has added impetus to the drive towards a low-carbon future and the momentum towards renewable energy.

This panel discussion brought together a stunning line-up of speakers who spoke their minds about the mechanisms required for a practical and successful transition, meeting the net-zero ambitions. More importantly, the session also highlighted the speakers' expertise in changing their business models and making tough choices to strike a balance between adopting new generation energy solutions and ensuring stability and security amidst global disruptions.

Driven by the need for change, Anja Isabel Dotzenrath, Executive Vice President of Gas and Low Carbon Energy at bp, stressed that it is not "or" discussion as all aspects should be put into consideration to ensure sustainable transition. "Transition needs to be orderly. There should be also investments in bioenergy, biofuels, biogas, and low-carbon hydrogen," she opined.

For his part, Alessandro Bernini, CEO and Chief Operating Officer at Maire Tecnimont Group, noted in such a variable environment, the key word is 'flexibility' as the transition imposes several challenges. "There should be in-depth knowledge of the environmental policies of the various countries as well," he added.

Bernini also touched upon the importance of investing in technology through collaboration with partners and service providers to open the door for more alternatives for decarbonisation. "What we are doing internally is that we are investing a lot in technologies. In addition, in our company, we are open to any geography. We will continue investing in Africa to implement projects that are already in compliance with our targets."

In his intervention, Luca Vignati, Upstream Director at eni, explained though the transition is not easy going, the stakeholders should not give up. "This is what we are doing for the community." He also highlighted the role played by data and science in outlining the value of transition, which is an essential brick.

Paul Marsden, President of Energy Bechtel, shared the same opinion that without adequate knowledge, no technologies can unlock potential of transition.

From Marsden's point of view, investment in new infrastructure is crucial for new energies. "We are developing this new infrastructure. It's got to be successful."

Alessandro Puliti, CEO of Saipem, clearly outlined the required guidelines for energy transition, namely sharing risk, joining forces along with less competition. "We have to be more



CONTINUED IN PAGE 4

MAPPING A FUTURE OF GREENER GROWTH IN ENERGY MARKETS

CONTINUED FROM PAGE 3

focused on realization. Alone, nobody wins the transition," he remarked.

Nargis Discovery: A Milestone in Joint Collaboration

In addition to the insightful discussions of the Strategic Conference, the attendees enjoyed an intellectually stimulating experience while following up the exclusive conversation with Clay Neff, President of Chevron International Exploration & Production, gaining first-hand insights on diverse topics.

The recent announcement of the significant gas discovery in the Nargis Block Offshore Egypt has been making headlines, taking into consideration its considerable contribution to the company's already significant gas resources in the Eastern Mediterranean. In this regard, Neff praised the great work that the exploration team has done, along with Chevron partners and the Egyptian government. "It is a very attractive discovery," he said proudly.

In a related context, Neff said that the discovery is now being evaluated. "We are going to figure out how we will commercialise it ...I guess ... in the near future. Our goal is to certainly get it to market as safely and quickly as possible."

Neff, in the meantime, highlighted the strong partnership with Egypt,

referring to the 84-year history in Egypt dating back to 1937. "Egypt is a very important part of Chevron's portfolio globally," he added.

During the interview, Neff shed light on the considerable contributions of Chevron's two assets: Tamar and Leviathan, describing it as a 'big business'.

"We also have the discovered resource in Cyprus and we are working with the Cypriot government and our partners to develop. We are actually getting ready to drill another well in the upcoming months in block 12 in the Aphrodite area."

Further enriching the conversation, Neff tackled the potential of the East Mediterranean, describing it as 'prolific basin'.

"There is more gas to be found. There is enough gas that should make its way into Europe, and the rest of the globe as well over time," he said with enthusiasm.

Neff also praised the leadership of Egyptian President Abdel Fattah El Sisi and Petroleum Minister Tarek el-Molla in bringing together all stakeholders and countries, paving the way for further collaboration.

The conversation also shed light on the crucial role of natural gas in supporting energy security and energy transition.

According to Neff, natural gas is going to play a key role for decades to come. "I think there is a real opportunity for natural gas to be a source of fuel that is clean. It is an enabler for the operation and energy security."

New Technologies Shape Energy Evolving Market

Tech solutions are now shaping the strategies of clean energy transition. To help understand the trends governing and driving the energy ecosystem, the Strategic Conference also brought together some of the biggest names in this domain in another interesting panel where panellists touched upon their expertise in driving transformation across their operations by adopting an innovative low-carbon agenda that embraces technology to reduce emissions.

The insightful discussion also drew the attention to the files of CCUS, methane reduction, flare recovery and reinjection, low-carbon hydrogen and energy management and efficiency, bearing in mind that more efforts are being expanded in these areas to increase momentum and advance decarbonisation across the oil and gas value chain.

Sherif Foda, Chairman of the Board & CEO of NESR - National Energy Services Reunited, stressed the need to change the narrative and people's mindset, turning the focus from 'risk

into 'impact'. "Opportunities are there and I think everybody has to look forward to that," he added.

During the session, Song Yu Executive President of UEG and CEO of Kuwait Energy, expressed his appreciation of Egypt's green ammonia and green hydrogen projects, adding that this move goes in tandem with the company's strategy.

Maria Rita Galli, CEO of DESFA, emphasised the need to combine the acceleration of traditional investment in natural gas with a long-term view on how to decarbonise our structure. "We are, of course, looking very much at our daily operation to make sure that everything we do goes in the direction of reducing our emissions."

According to Marco Villa, Chief Operating Officer at Technip Energies, there are several ways to decarbonise, a matter that requires collaborative work.

Dr Patrick Allman-Ward, CEO of Dana Gas, shared the same opinion, highlighting the importance of giving a priority to addressing reliability to meet customers' demands.

Ministerial Interview

EL MOLLA CALLS FOR MORE INVESTMENTS IN ENTIRE ENERGY MIX

At the end of the Strategic Conference at EGYPS 2023, Minister of Petroleum and Mineral Resources Tarek El Molla praised Egypt for hosting the conference, indicating that the "four days of activities are just a reflection of what Egypt is doing in the [realm] of energy."

Talking about the energy sector's needs for investments, the minister indicated that the entire sector with its diverse energy mix, consisting of both fossil fuels and renewables, needs investments. He pointed out that the world cannot exclusively focus on renewables and ignore other sources of energy, asserting that global markets still need an increase in fossil fuel production to sustain their needs. "Less investments means less production, that means higher prices, and it is going to be a vicious circle."

El Molla concluded. "We need the investments in all aspects and I wouldn't prioritize any of them."

Moreover, the minister talked about the importance of rationalising energy consumption, especially as the country's population keeps growing. El Molla added that the country needs to ensure that it "adds more of what we are blessed from God [with] giving us Sun and wind. So, I think that we need to put more of renewables [in] to our systems, and to consume less of our fossil fuel in order to avail more foreign currency, and then this will be positively reflected [in] our economy."

The minister also highlighted the importance of work efficiency as the sector has many opportunities and a lot of room for development.



Moreover, he highlighted the need for more investments as he stated that the "yearly increase in population is something that is really eating whatever growth [we achieve] in our GDP."

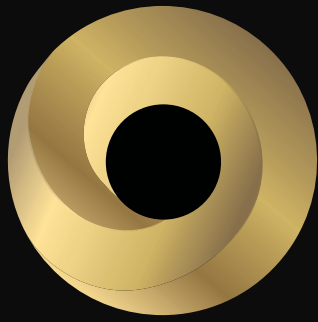
When it came to the East Mediterranean Gas Forum, El Molla stated that Egypt has proved that the concept is achievable, expressing his hopes for the forum to "be the East Mediterranean Energy Forum, and then ultimately it will be the Mediterranean Energy Forum."

He stated that he is looking forward to COP28 in the United Arab Emirates (UAE) to build on what has been achieved in this year's COP27, in which the oil and gas sector had a thematic day for the first time, Decarbonization Day.

El Molla praised the country's vision six years back when it called for the Egypt Petroleum Show (EGYPS) to be held in Egypt and succeeded in bringing together many energy leaders in one place for the sixth edition.



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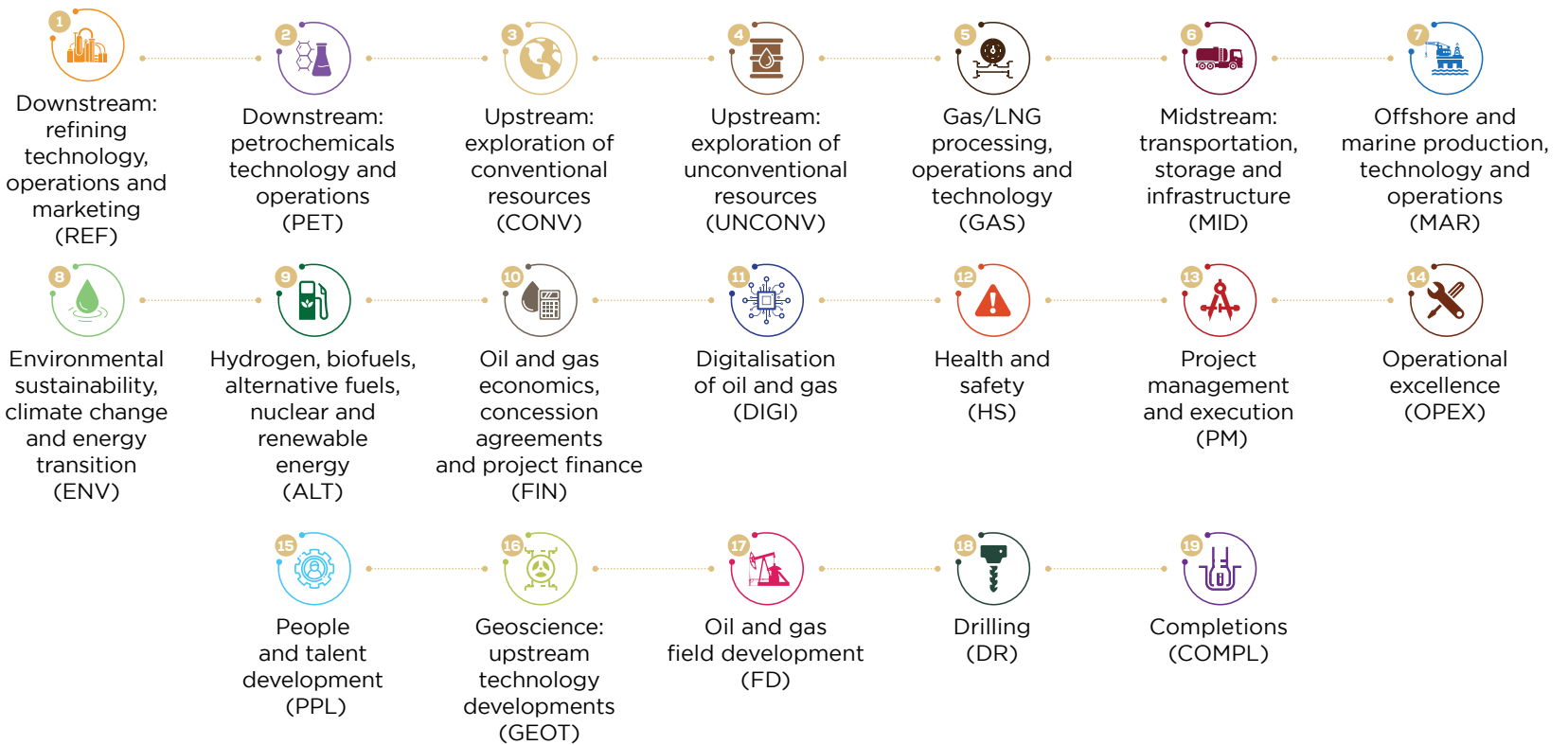


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NEW DEALS CHANGING THE TRAJECTORY OF EGYPT'S ENERGY SECTOR

This edition of EGYPS 2023 was a golden opportunity for Egypt's energy sector to pave the way for its success with a series of landmark deals witnessed by Minister of Petroleum and Mineral Resources Tarek El Molla. This series of MoUs and agreements are sure to guarantee Egypt a prosperous and greener future.

EMGF, IEF Sign MoU to Advance Regional Dialogue, Support Sustainability

A memorandum of understanding (MoU) was signed by Osama Mobarez, Secretary General of the East Mediterranean Gas Forum (EMGF) and Joseph McMonigle, Secretary General of the International Energy Forum (IEF). The MoU stipulates advancing regional dialogue to support the sustainability and resilience of global energy markets and entails supporting the construction of a hydrogen network and the role of gas in solar energy.

EMGF, OME Sign MoU to Strengthen Mediterranean Cooperation

The East Mediterranean Gas Forum (EMGF) signed an MoU with Observatoire Méditerranéen de l'Énergie (OME) to provide a framework for cooperation between both parties on mutual interest. The two signatories of the agreement were Osama Mobarez, Secretary General of EMGF and Houda Ben Jannet Allal, General Director of the Observatoire Méditerranéen de l'Énergie.

This MoU was essential for energy projects and the energy transition in the Mediterranean region through facilitating the exchange of knowledge, best practices in energy, preparing carbon-free gas directives, financing and human resources.

EGPC, Apache Agreement for Qarun Mix Crude Oil

The Egyptian General Petroleum Corporation (EGPC) and Apache signed a joint marketing agreement for Qarun mix crude oil. The agreement was signed in the presence of Tarek El Molla, Egyptian Minister of Petroleum and Mineral Resources (MoP) and John Christmann, CEO and President of Apache Corporation.

Alaa El Batal, Chairman of the Egyptian General Petroleum Corporation (EGPC) signed the agreement with David Chi, Vice President and General Manager of Apache Egypt. The agreement comes in light of the petroleum sector's keenness to cooperate with foreign partners in facing the current global challenges in the global market. It entails both parties exporting their share of the raw materials of the Qarun mix oil to the global market for the first time, ultimately benefiting both parties. Moreover, it enhances the value of Egyptian crude in the global market.

MoP, Chevron MoU Aims to Cut Down on Methane

An MoU was signed between the Ministry of Petroleum and Chevron to cooperate in capacity building and exchanging best practices related to low carbon projects, including those related to methane emissions management.

Alaa Hagar, Undersecretary of the Technical Office at the MoP, was the ministry's representative for the MoU's signing, and Kristian Svendsen, Chevron Egypt's Country Manager, was Chevron's representative. The signing took place in the presence of Clay Neff, President of Chevron International Exploration and Production.

IBM, Petroleum Ministry Sign Digital Transition MoU

Ministry of Petroleum and Mineral resources signed a memorandum of understanding (MoU) with IBM to allow the ministry to benefit from the advisory services provided by the leading technology company in the field of digital transformation and sustainability in support of the endeavours of companies operating in the oil and gas sector in these areas.

Alaa Hagar, Undersecretary of the Technical Office at the MoP, was the ministry's representative at the signing of the MoU, and IBM was represented by Tamer Abul Azm, Managing Partner at IBM Consulting Egypt, in the presence of Saad Touma, Director of IBM for the Middle East and Africa, and Marwa Abbas, General Manager and Technology Leader at IBM Egypt.

Emission Reduction Agreement Between Shell, Bechtel, Petrojet, Enppi,

Khaled Kacem, Vice President and Country Chair of Shell Egypt; Karim El-Dessouky, Country Manager of Bechtel Egypt; Walid Lotfy, Petrojet Chairman; and Mohamed Abdelaziz, Enppi Chairman; signed an emissions reduction agreement between Shell and members of the Bechtel-Egypt, Enppi and Petrojet consortium.

The agreement came within the framework of implementing a number of the ministry's work programme to reduce emissions through oil and gas facilities and projects in cooperation with international partners. The agreement aims to reduce carbon from the facilities of the Egyptian Liquefied Natural Gas Export Company in Idku and the facilities of the West Deep Delta fields.

Tarek El-Molla, Minister of Petroleum and Mineral Resources, Gareth Bailey, British Ambassador to Cairo, and Paul Marsden, President of Bechtel Energy Inc., witnessed the signing of the agreement, which was in the presence of Cedric Cremers, Executive Vice President LNG at Shell, Alaa El Batal, CEO of the Egyptian General Petroleum Corporation, and Magdy Galal, Chairman of the Egyptian Natural Gas Holding Company (EGAS).

El-Molla stressed that the agreement represents a starting point in the actual implementation of a number of projects of the ministry's work programme to reduce emissions through facilities and oil and gas projects in cooperation with international partners.

For his part, El-Dessouky explained that the signing is part of an integrated work programme with the Ministry that extends for six years to reduce carbon emissions through oil and gas facilities, and represents an extension of the MoU signed last year during the EGYPS conference in this field.

It is worth noting that the implementation of this project will contribute to saving energy and reducing emissions by standardising the electrical power systems of the onshore stations. This integration includes optimising the use of gas generators in the two projects, promoting the most efficient operating mode for both projects, reducing greenhouse gas emissions, and saving fuel.

Kacem confirmed that moving to clean energy is a top priority for Shell. The start of the implementation of this project reflects its commitment to constructive cooperation with Egypt in implementing commitments to reduce emissions and achieve energy efficiency.

MoP, Kuwait Energy Egypt Finalise Training, Capacity Building Agreement

The Ministry of Petroleum and Mineral Resources has signed an agreement with the Kuwait Energy Egypt to provide training programmes and workshops as part of the MoP's building capacities programme for operation safety and assets integration teams.

This agreement aims to raise the managerial and technical efficiency of the middle managers at the production sites after passing technical and managerial evaluation according to the latest



practices. This is to reach to the best elements who are able to be responsible for the operation safety management at the various technical departments.

The agreement was signed by Ministry's Undersecretary of the Technical Office, Alaa Hagar with President of Kuwait Energy Egypt, Kamel Al Sawi, in attendance of the CEO of Kuwait Energy, Song Yu.

EGPC, ENPEDCO Sign Petroleum Exploration, Exploitation Agreement of South Ras Qattara

The Egyptian General Petroleum Corporation (EGPC) has signed a memorandum of understanding (MoU) with the Egyptian National Petroleum for Exploration and Development Company (ENPEDCO) for exploration and production (E&P) activities as part of the petroleum sector's strategy to encourage the national companies for E&P.

The MoU includes drilling three exploratory wells in Ras Qattara at the Western Desert with investments worth \$ 7 million during the exploration periods and it will be doubled when achieving commercial exploration.

The MoU was signed by the Head of EGPC, Alaa Al-Batal and the Chairman of ENPEDCO, Abdel Baset Al Sayeh.

Kuwait Energy Egypt Ink Concession Agreement for Burg Al Arab Development Area

The Egyptian General Petroleum Corporation (EGPC) along with Kuwait Energy Egypt have signed a memorandum of understanding (MoU) to pump investments in the developing area of Borg Al-Arab in the Western Desert.

According to the MoU, two wells will be drilled with minimum investments of \$4 million aiming to use the promising petroleum reserves in this region. The MoU was signed by the EGPC Chairman Alaa El Batal and the President of Kuwait Energy Egypt, Kamel Al Sawi.

EGPC, Eni Make Amendment Agreement for the South West Meleiha Area

The Egyptian General Petroleum Corporation (EGPC) and Eni company have signed a memorandum of understanding (MoU) to invest \$7 million in exploration and production activities at the South West of Meleiha located in the Western Desert.

The MoU involves drilling of two exploratory wells to get benefit of the promising potentials of that area. It was signed between the General Manager of IEOC, Mattia Campanati, and the EGPC Chairman Alaa El Batal in attendance of the Head of Upstream in Eni, Luca Vignati.

This was in the presence of Egyptian Minister of Petroleum and Mineral Resources Tarek El Molla.

EGPC, Perenco Finalize Amendment Agreement for the Offshore North Sinai Area

The Egyptian General Petroleum Corporation (EGPC) has inked an agreement with Perenco company to pump investments worth \$8 million in natural gas exploration and production (E&P) activities for developing offshore Sinai.

Based on the agreement, Perenco will drill a new well in Sinai. The agreement signed between the Head of EGPC, Alaa Al- Batal and the Chairman of Perenco, Raafat El Beltagy in attendance of the General Director of Mediterranean Energy Observatory Houda Ben Jannet Allal.

MoP, IEOC Sign Training Middle Management MoU

The Ministry of Petroleum and Mineral Resources signed a joint memorandum of understanding (MoU) with Italy's Eni to cooperate in training middle management cadres.

Alaa Hagar, Undersecretary of the Technical Office, has signed the MoU with Mattia Campanati, IEOC General Manager, in the presence of Luca Vignatti, IEOC Exploration Director.

Enppi, Fagr Sign Gas Pipeline Deal

In order to carry out the engineering design work to increase Jordan's gas pipeline capacity, Enppi inked an agreement with Fagr, a Jordanian Egyptian company. The agreement came within the

framework of the expansion of oil sector companies to implement projects in Arab countries.

Enppi, slb Sign Energy Transition, Deepwater Work Deal

In the field of energy transition, engineering design, and deepwater work, Enppi signed a cooperation agreement with slb. Signatories included Enppi Chairman Mohamed Abdel Aziz and Sherif Bayoumi, Managing Director of slb Egypt and the Eastern Mediterranean, and the two vice presidents of the global subsea7 company, Jan Cottert and Frank Levité.

EGPC, HELLENiQ Energy Sign SPA Agreement

The Egyptian General Petroleum Corporation (EGPC) signed SPA agreement with HELLENiQ Energy . The contract aims to maximize the Egyptian crude added value in the global market, this came within framework of the fruitful cooperation between Egypt and Greece. The contract signed by EGPC Chairman Alaa El Batal and Andreas Shiamishis, HELLENiQ Energy CEO, contributes to maximising the added value of Egyptian crude in the global market.

EGPC, Oracle Ink MoU to Support Digitalisation

The Egyptian General Petroleum Cooperation (EGPC) signed a memorandum of understanding (MoU) with Oracle. The memo came within the framework of EGPC's digitalisation support. The MoU was signed by the EGPC'S Chairman Alaa El Batal and Basil Mubarak, General Manager of Oracle Egypt, in the presence of Iman Wafi, Assistant President of the Authority for Information Technology.

OOMCO, Misr Petroleum Ink Lubricating Oil Products Agreement

Oman Oil Marketing Company (OOMCO) and the Misr Petroleum Company signed a manufacturing, mixing and marketing of lubricating oil products agreement. In the presence of the Omani Ambassador in Cairo, Abdullah Al-Rahmi, the contract signed by the President of Misr Petroleum, Mohamed Maged, and Tariq Al-Junaidi, President of Oman Oil Marketing.

ACPA, OOMCO Deal Fosters Closer Energy Cooperation Between Egypt, Oman

Oman Oil Marketing Company (OOMCO) signed an agreement with Alexandria for Petroleum Additives (ACPA). The contract aims to produce, mix, and bottle of the Oman's oil in Egypt, whereby a final product is manufactured and packaged by ACPA. The agreement came within the framework of OOMCO's interest in the Egyptian market as a gateway to Africa. The agreement also aims to export and distribute OOMCO's Products inside and outside the Egyptian market at a rate of approximately 1,500 tons annually.

The agreement signed by Hisham Riyad, ACBA CEO, and Tariq Al-Junaidi, OOMCO CEO, within the framework of the Oman Oil Marketing Company's interest in the Egyptian market as a gateway to Africa.

Tanmia Petroleum, Huawei Egypt Sign Digitalisation, Green Energy MoU

Tanmia Petroleum and Huawei Egypt signed a memorandum of understanding (MoU) for cooperation in the areas of digital transformation and green energy within the petroleum sector. The agreement was signed by Mustafa Amin, President of Tanmia and Ding Yunjie, Head of the Digital Business Group at Huawei.

EGPC Inks MoU with Ina Industrial Nafta, Energean to Explore the Western Desert

The Egyptian General Petroleum Corporation (EGPC) has signed a memorandum of understanding (MoU) with the two companies of Ina Industrial Nafta and Energean to explore Sharq Be'r Al-Nos area located in the Western Desert.

The MoU stated that the companies will drill three exploratory wells with minimum investments worth \$14 million and bonus signature \$2 million.

The MoU was signed by EGPC Alaa El Batal and the CEO of Energean, Nicolas Katcharov and Energean Egypt's Country Manager.



DRIVING INNOVATION IN THE NET ZERO RACE

An interview with Amru Alabidi, Senior Vice President - Oman, UAE, Iraq & North Africa - Worley

How does Worley support energy transition?

No single technology can solve our decarbonization challenge. But a combination of them can. The future of energy depends on a range of technologies and people working together. Only then can the journey to reduce the carbon intensity of industrial processes happen without impacting productivity or financial performance. Today's energy transition is unstoppable. And the scale and pace of change needed is extraordinary, presenting unique challenges for the world's biggest energy, chemicals and resources businesses.

We need to change processes, develop new technologies, create entirely new value chains, and continuously innovate and improve. Worley has recently written From Ambition to Reality 2: measuring change in the race to net zero - Worley's collaborative paper with Princeton University's Andlinger Center for Energy and the Environment. It shows how we convert thinking into action by outlining indicators needed to measure and drive change in the race to deliver net zero.

What does Worley expect from EGYPS 2023?

Last year we had a successful event at EGYPS 2022 and we continue to build on this success for EGYPS 2023 as a Silver Sponsor where we will also have the presence of our Group Senior Vice President for Global Upstream Sector Lead, Jim Lenton. I am participating in panel discussions related Equality in Energy Conference and my colleague Jim Lenton will participate in the Sustainability in Energy Conference as well. We hope to share our learnings with other major companies.

What does Worley plan to achieve in Egypt in 2023?

We plan to be part of the strategy and implementation for continuous growth in Egypt as it pertains to energy and sustainability. We will re-connect with our existing customers and further enhance

the relationships to support them in their future projects, specifically the evolving areas of hydrogen and decarbonization.

Could you please comment on what you think makes EGYPS a unique international platform that encourages bolstering cooperation among major companies worldwide?

Egypt sits at the heart of the Middle East, African and Mediterranean energy conversation which is a unique opportunity for local and international industry executives and leaders to continue debate, share some insights and engage in positive open dialogues to energy security and transition in Egypt and the region.

“Today's energy transition is unstoppable. And the scale and pace of change needed is extraordinary, presenting unique challenges for the world's biggest energy, chemicals and resources businesses.”

What are your latest efforts toward delivering a more sustainable world?

We have come a long way on our journey to delivering a more sustainable world. We are supporting both existing and emerging customers on their sustainability journeys having delivered over 3600+ energy transition projects. 80% of our top 20 customers by revenue have net-zero commitments, and they are turning to us to provide the expertise, agility and scale to bring efficiency and commercial viability



to their decarbonization projects. From within Worley, we set our net-zero Scope 1 and Scope 2 emissions targets for 2030, and this year we updated our Climate Change Position Statement; we expanded our Scope 3 Emissions disclosure. This year, we integrated our sustainability content throughout our Annual Report.

How do you think COP27 outcomes affect your activities?

We witnessed the announcements of updated ambitions by other countries with Worley links, and they were all aligned in terms of outcomes and initiatives which impact our Sustainability pathways and Sectors. One example was Saudi Aramco's announcement of signing a 44MT Carbon Capture and Storage development agreement with the Saudi Energy Minister. Worley is continuing with its sustainability plan and is creating strategic centers of excellence in the Middle East and Africa with investments in the right resources to be closer to our customers and be more responsive to our regional customers.

“We plan to be part of the strategy and implementation for continuous growth in Egypt as it pertains to energy and sustainability.”



Since 1902, ExxonMobil Egypt's commitment remains to provide high-quality petroleum products and lubrication solutions, to millions of our valuable customers.



OPTIMISING PETROLEUM, PETROCHEMICALS PRODUCTION TAKES CENTRE STAGE ON THE SECOND DAY OF EGYPS TECHNICAL CONFERENCE



The second day of the EGYPS Technical Conference featured a steady stream of discussions centred on the conference's subject "Supporting Sustainable Global Energy Supply and Demand."

Towards a Sustainable Petrochemical Industry

One of the technical sessions of the day was moderated by Sara Mortada, Assistant General Manager- Business Development at Egyptian Petrochemicals Holding Company (ECHEM). It was titled "Towards a Sustainable Petrochemical Industry". Through four very informative presentations, it discussed the future of petrochemicals, exploring the role of the industry in today's energy sector and how its significance for global energy security and the environment is set to increase.

The first presentation was by Mohamed Abdel Atty Ahmed, Ammonia and Utilities Plant Manager at Misr Fertilizers Production Co. (MOPCO), titled "Recovering the Activity of Ammonia Synthesis Catalysts". At the beginning of the instructive presentation, Abdel Atty gave an overview of his company and its activities in the Egyptian and international markets.

He also explained the phases of ammonia production. "Understanding

ammonia convertor performance is key for efficient operation," he indicated before discussing how his company's team tried to recover the ammonia production due to the decline of ammonia synthesis by optimising the parameters of the catalyst. "The catalyst maintains a very good activity that is even better than expected after 14.3 years of service," he concluded.

The second insightful presentation titled "OPEC World Oil Outlook (WOO 2022)", was given by Mohammed Attaba, Downstream Oil Industry Analyst at Organization of the Petroleum Exporting Countries (OPEC). He provided an overview of oil, gas and petrochemicals demand in the global scene and the required investments. Attaba said that "global gross domestic product (GDP) is projected to increase by 3% per annum on average, rising from around \$133 trillion in 2021 to almost \$270 trillion in 2045."

Moreover, Attaba elaborated that OPEC expects lower costs for renewables and batteries. "So based on this fact, global primary energy

demand is forecasted to continue growing by 23% to reach 351 million barrels of equivalent per day (mmbob/d) in 2045," he said.

Haitham Ramadan Omara, Director of Department at Sidi Kerir Petrochemicals Company (SIDPEC) made a presentation on "Optimisation of High Density Polyethylene (HDPE) Reactor Using PSDS of Chromium Catalyst". Omara provided a study on how "to detect the appropriate particle-size distribution of chromium catalyst used for manufacturing high density polyethylene with the required

properties and without exposure to high manufacturing risk by high consumption of pre-polymer or elevating the temperature of the final reactor." He concluded that by implementing these techniques can increase production at lower costs.

Manu Van Leuvenhaege, Commercial Director, Sulzer concluded the session with a presentation on "Pygas Maximise Petrochemicals from Your Steam Cracker." He gave a discussion on Pygas and how to use it to maximise petrochemical production from an existing steam cracker.



Leuvenhaege also presented the typical Pygas processing steps and discussed how it can help upgrade existing systems to achieve added value and decarbonisation objectives. He talked about aromatics extraction. He stated that "Using the efficient solvent is the key to reducing the carbon footprint of an aromatic extraction unit, whether it is the extractive distillation unit or liquid extraction unit."

Transportation, Storage and Infrastructure for Midstream Operations

Another technical session addressed "Transportation, Storage, and Infrastructure for Midstream Operations" was moderated by Khaled ElGammal, General Manager for LNG/ Gas Export and Import Activities and Facilities Follow-Up, Egyptian Natural Gas Holding Company (EGAS) and Hesham Elkhafif, Assistant Chairman for Technical Affairs, EgyWptian Company for Gas Services (ECGS). The technical session provided four remarkable presentations.

The first presentation was given by Hasan Elnagar Hassan Ibrahim, Assistant General Manager, ANRPC, titled "Local Production of Poly (m-aminophenol) Soluble in the Innovative Solvent (PONA) As Pour Point Depressant for Paraffinic Crude Oil." Through his presentation, Elnagar indicated that "the aim of the work is to prepare poly to be used as a new PPDs (pour point depressants) for



waxy crude oil in the cold regions with different ppm."

The second presentation was titled "New Philosophy for Midstream Grid Development in the East Mediterranean Region", presented by Aryeh Nitzan, Midstream Technical Manager, Marketing, East Mediterranean Business Unit, Chevron. Nitzan who spent 18 years of his career between upstream and downstream, advises that "the midstream operators really should start designing and constructing their pipelines for higher operating pressure". He presented a case study to show the impact of a pressure increase in the Israeli grid and EMG pipeline.

Sujith Pratap Chandran, Senior Project Management Consultant, Wintershall Dea AG made an imperative presentation on "Hydrogen Infrastructure: A Review of its

Opportunities and Challenges from Project Management Perspectives." Chandran began his presentation by explaining how the energy transition is not an easy process and then examined the key drivers that influence the energy transition. Through his presentations, Chandran explained strategy responses to make hydrocarbon business more resilient, saying that "strategy responses give rise to projects in the pipeline for which the organisation needs to develop new project management muscles, new execution capabilities, and leadership culture need to be forged."

Additionally, Mohamed Esam, Electrical Engineering Section Head at the Petroleum Pipeline Company (PPC), concluded the session with a presentation on "Early Detection of Broken Bar Faults in Induction Motors During the Use of Optimised Stockwell Transform and Adaptive Time Frequency Filter." Esam explained broken bar fault (BBF) detection and diagnosis techniques for motors. During his presentation, Esam said that "induction motors (IMs) are the most widespread electric type across a broad range of industries".



TECHNICAL SESSIONS AGENDA

	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5
WEDNESDAY 15 FEBRUARY	10:00-11:30 CATEGORY: DIGI SESSION 31 Data science, predictive analytics and artificial intelligence	10:00-11:30 CATEGORY: OPEX SESSION 32 Cost optimisation and asset integrity	10:00-11:30 CATEGORY: CONV SESSION 33 Innovation in prospect evaluation	10:00-11:30 CATEGORY: FD SESSION 34 Unlocking the potential of mature fields	10:00-11:30 CATEGORY: ENV SESSION 35 Carbon capture, utilisation and storage (CCUS)
	11:30-13:00 CATEGORY: DIGI SESSION 36 Cyber security, safety and augmented reality	11:30-13:00 CATEGORY: OPEX SESSION 37 Maintenance and asset integrity	11:30-13:00 CATEGORY: CONV SESSION 38 Rock physics insights	11:30-13:00 CATEGORY: FD SESSION 39 Production optimisation and enhancement	11:30-13:00 CATEGORY: ENV SESSION 40 Circular economy case studies
	14:00-15:30 CATEGORY: DIGI SESSION 41 Digital twins and IoT	14:00-15:30 CATEGORY: OPEX SESSION 42 Intelligent solutions and the role of technology to achieve operational excellence	14:00-15:30 CATEGORY: CONV SESSION 43 Addressing reservoir characterisation challenges	14:00-15:30 CATEGORY: FD SESSION 44 Integrated reservoir case studies	14:00-15:30 CATEGORY: ENV SESSION 45 Technology to enable environmental sustainability

GALA DINNER

CELEBRATING THE TRIUMPHS OF EGYPS 2023

After a long, eventful first day of conferences and deal closures, EGYPS hosted a spectacular Gala Dinner celebrating the achievements of the day.

The glamorous dinner was attended by a star-studded guest list including ministers, secretary generals, global CEOs, decision-makers and leaders from across the oil, gas and energy industry. The Gala Dinner was sponsored by Chevron and IPR Energy Group and took place at the luxurious Dusit Thani Lakeview Cairo.

The event was honoured by the presence of Tarek El Molla, Egypt's Minister of Petroleum and Mineral Resources delighted guests with a personal note of welcome saying "I just want to start by saying thank you. We are gathered here tonight to celebrate the success of a new edition of Egypt Petroleum Show, which starting next year we intend to have as the Egypt Energy Show."

El Molla's indicated that the decision to turn EGYPS into EGYPES comes in alignment with the industry's effort in transitioning to clean energy. "Over the years we are evolving and trying to become more inclusive. Through our journey to transition we need to include all types of energy," said El Molla. Fossil fuels, renewable energy and hydrogen are several of the energy sources that the minister considers essential for the sector's future.

In his opening speech, the President of dmj events, Christopher Hudson welcomed guests and expressed his appreciation and acknowledgment of the efforts that everyone exerted. Hudson began his speech by thanking



El Molla saying "Firstly, I would like to thank H.E. Tarek El Molla for his guidance." He went on by extending his heartfelt appreciation to Chevron and IPR. "I would also like to thank Chevron for sponsoring tonight's gala dinner and IPR for sponsoring tonight's entertainment which I am sure you will enjoy," he said.

El Molla also expressed his happiness with the gathering. "I consider this our party and our celebration for a year full of success, stories and collaboration. I think that throughout the past years, we were able to demonstrate through

partnerships and through belief in our system and talents that we are a good partner and good destination for investments."

Optimistic about the future, El Molla added: "The number of participants and exhibitors speaks for itself. Year after year, we are seeing an increase in the number of new players in the industry."

In addressing where he sees Egypt's energy industry in six years, El Molla stated that he envisions it evolving from being an east Mediterranean gas hub into being an east Mediterranean

"I just want to start by saying thank you. We are gathered here tonight to celebrate the success of a new edition of Egypt Petroleum Show, which starting next year we intend to have as the Egypt Energy Show."

HIS EXCELLENCY

TAREK EL MOLLA

Minister of Petroleum and Mineral Resources- Republic of Egypt

energy hub, emphasising the importance of being inclusive of the diverse energy mix.

To conclude his speech, the minister stressed the importance of future cooperation. "Your presence gives us the confidence and encouragement for a new year to do more work and effort and meet your expectations. Our region needs your investment, encouragement and services. It needs you to believe in our region and I think this is already happening day by day. I want you to enjoy your evening and dinner. Once again thank you for being here and I am looking forward to new successful participation over the three-day conference," he concluded.

The venue was exquisitely decorated and guests could enjoy splendid catering. The dinner also featured a captivating performance by Reda Troupe, an Egyptian folklore dance group that truly promotes and preserves Egyptian heritage.





Huawei Digital Power for Low-Carbon Sites & Data Center Facilities

Power the Green Future

Huawei Data Center Energy Solution

Prefabricated Modular DC



Prefabricated All-in-one DC



Medium-sized Prefabricated Modular DC



Large-scale Prefabricated Modular DC

Smart Modular DC



Micro modular DC



Small modular DC



Smart modular DC

Smart Power Supply



UPS Solutions



SmartLi



FusionPower6000

Smart Cooling



In-row Smart Cooling

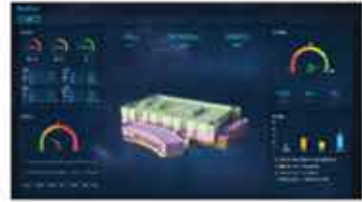


In-room Smart Cooling



Indirect Evaporative Cooling

Smart DC Management System



Huawei SitePower Energy Solution



Blade Power



iPoleSite



iSuperSite



iPowerCube



iMagicPower



PAVING THE WAY FOR SUSTAINABILITY IN THE ENERGY SECTOR'S FUTURE

The EGYPS 2023 Sustainability in Energy Conference has been an international platform that brings together global energy leaders, sustainability and HSE experts. It's a perfect venue for exploring how oil and gas operators are integrating sustainability practices into their business models and workplaces ensuring a positive impact on the planet, their employees, and the communities in which they operate.

The EGYPS 2023 Sustainability in Energy Conference began with a keynote speech by Ali Abo Sena, Chief Executive Officer of Egypt Ministry of Environment, who shed light on Egypt's strategy to achieve its Sustainable Development Goals in line with Vision 2030 and the upcoming developments that will be on focused during the next COP 28 in the UAE. Abo Sena referred to the success of the COP 27 in Sharm El Sheikh. "We were able to establish the loss and damage fund which have been discussed over the last 17 years, said Abu Sena."



Sameh Sabry, Senior Vice President & Managing Director of Wintershall Dea Egypt gave another interesting keynote speech on "Driving sustainable performance in challenging market conditions." Sabry stresses that more resolute actions need to be taken to maintain a sustainable future in this challenging market. "In Wintershall Dea, we think we need to do more for the future. We believe that carbon management and storage, as well as hydrogen production, could be one solution which is helpful for the survival and existence of our industry in the future. This is an area where we think our industry should evolve into."

Sabry concluded his keynote speech, stating that sustainability is a key to competitiveness not only the survival of the industry.

Streaming Operations to Tackle Climate Change, Net-Zero Target

A series of panel sessions took place throughout the day. The first panel discussion was titled "Streaming Operations to Tackle Climate Change and Net-Zero Target". During the panel, Denisse Abudinen, CEO of ENAP Sipetrol and General Manager (GM) at ENAP Sipetrol Egypt, indicated that "From the beginning, the shareholders need to understand that trying to be easy going on the environmental sustainability is not a luxury investment. It is a part of the business."

Paul Mayland, Chief Operating Officer of Capricorn Energy, has pointed out that "Stakeholders, governments, and

investors are more receptive to understanding the role of offsets when they see the backdrop when you're trying to do everything you possibly can within your control to control your own emissions and reduce them over time. But to achieve net zero you face certain challenges and that's where a meaningful goal for offsets can be placed."

Continuing the discussion, Anas Aljuaidi, Chief Executive Officer of MMEC Mannesmann, said "Egyptian people have a very open mindset when it comes to the construction. We achieved [a] 35% [reduction] of construction activities and carbon emissions by implementing very smart technologies to reduce emissions. There are some technologies that we are working with our partners from Egypt to reduce it."

Allyson Book, Chief Sustainability Officer at Baker Hughes, said "The role of digital in Baker Hughes is that we look at it as an end-to-end solution. You have continuous monitoring, so you are reducing your emissions that are already embedded in your operations."

Digitalisation as an Enabler of Decarbonisation

Another panel discussion discussed the role of "Digitalization as an Enabler of Decarbonisation". "Digitalisation is revolutionising the industry. It is a journey, and we are learning, our customers and suppliers are learning. What is vital in the future is how do we shape the public and private relationship and understanding towards the upcoming solutions to make things work as fast as we like them to work," said Alexander Kajos, Vice President for Downstream at Nalco Water.

Steve Freeman, Head of Energy Transition, SLB carried on the discussion by stressing that "We need to be able to bring out more energy with zero emissions. We need the technology to do that and so therefore digital is essential to do that."

Furthermore, Samir Elkareish, Vice Chairman Energy Transition of the Egyptian Natural Gas Holding Company stated that "We consider that digitalisation can provide a comprehensive platform to afford the solutions of the decarbonisation to



reduce the carbon footprint of the oil and gas industry. We expect to leverage the vision of our colleagues to assist us and accelerate the energy transition in the oil and gas sector."

Carrying on the insightful discussion, Abderrezak Benyoucef, Head of the Energy Studies Development of OPEC pointed out that "digitalisation will be very important in the near future based on two fronts. The first front will be measurement of the emissions and the second front will be tracking and reporting. Digitalisation is one of the best solutions to provide the transparent data but also contribute to reduce emissions in an effective way."

Tarek Hamouda, Chairman & CEO

of Paxon Energy Infrastructure and Ricardo Puig, Chief Commercial Officer at Magellan X.

The Road to North African and East Mediterranean Cooperation

The third panel of the conference titled "Building partnerships to drive CSR progress across Sub-Saharan Africa, North Africa and the East Mediterranean" was moderated by Ali Hegab, Oil and Gas Consultant. The panellists strategised on how to cross-collaborate to promote CSR initiatives, give back to the community, and assist governments in North Africa and the East Mediterranean with economic and social reform.



Technical Office GM, ENPPI ended the panel discussion with a final note saying that "The world is waiting for us to provide the solutions to the gas emissions."

Demonstrating ESG Credentials to Drive Sustainability, Growth

Moreover, the third panel discussion that took place was called "Demonstrating ESG credentials to drive sustainability and growth". During the session, panellists shared different viewpoints on how to achieve sustainability, and growth, and demonstrating ESG credentials in the industry. The panel witnessed the participation of Anthony Watson, Chief Executive Officer at Ras Ghareb Wind Energy S.A.E, Jim Lenton, Group Senior Vice President Sector Lead Upstream, Midstream, LND of Worley, Antonios Mountouris, Head of HSE & Sustainable Development Division of Helleniq Energy, and Nooshin Behroyan, Chief Executive Officer

The panellists included Nael Darwish, Chairman of the South Valley Egyptian Petroleum Holding Company (GANOPE); Brad Boyd, Senior Vice President of Corporate Resources at Methanex Corporation; and Dalia Wahba, Deputy CEO and Chief Investment Officer at Hassan Allam Utilities. They began by sharing their respective company's successful CSR initiatives and projects.

Blake Gendron, Vice President of Investor Relations & ESG IMPACT Segment at NESR, commented on the role of government in fostering better cooperation between companies and communities. "We need governments to provide geo-political and regulatory stability," he said.

Nicolas Katcharov, Country Manager of Energean Egypt, added: "CSR gets people closer, improves loyalty, moral satisfaction which keeps them focused on what they have to do every day in their profession."

For her part, Laila Chemane-Chilemba, Vice President Socioeconomic Development - Mozambique LNG Project at TotalEnergies pointed out that the companies have the investment but the communities have the know-how.

Enhancing HSE through R&D

Undoubtedly, safety hazards have been a concern within the oil and gas industry due to their ability to cause lost income and most importantly fatalities or injuries to workers on-site. In this sense, the second panel titled "Scaling R&D to unlock technology and enhance industry safety", highlighted the role technology can play in creating safer worker environments.

The panel was moderated by Ali Hegab, Oil and Gas consultant and comprised HSE executives and digital energy leaders including Mohammed Bahatem, Senior Vice President of HSSE & Asset Integrity Management at Mubadala Energy, James Garvie HSE Advisor at Chevron and Mathew Thomas, Senior Industry Consultant at Hexagon.

Mohammed Bahatem gave a few remarks on technology tools that achieve autonomous work including virtual reality, robotics, machine learning and augmented reality. He said, "Digitalisation is not an objective it is an enabler."

When asked about one important thing that enhances safety, Mathew answers "Leveraging the potential of the data that is available to us is the key factor in enhancing safety."

James Garvie discussed the four main themes that Chevron consider when it comes to health and safety; communication, automation, inspection and new process and materials.

Dialogue on Developing the Oil and Gas Safety Culture

The final panel of the conference discussed "Advancing the Oil and Gas Safety Culture" and was moderated by Hussein El Ghazzawy, Chairman of Coxswains for Marketing & Commercial Training. In this session, panellists discussed what are the key indicators of a strong safety culture and how they are working towards a safety program that emphasizes on the health and safety of employees.



Yasser Hassan, Safety and Environment Manager at Shell Egypt initiated the discussion by commenting "We have to learn how to fail safely. It's important to put all controls in to place and that we try standardize our system with the industry and international organizations."

Alexandra Thomas, Managing Director Egypt at Neptune Energy, discussed how to create the right safety culture and environment where people feel safe. "In Egypt, Neptune has first set the expectations, secondly, make sure people are recognized for their competence and thirdly, properly embedding the system."

Wael Amin, Head of HSE at Kuwait Energy Egypt, started with alarming

statistics from the International Labour Office concerning health and safety. Wael then insisted that it is the managers role to lead by example. "The fastest way to destroy safety culture is when managers don't walk the talk, the credibility of the safety culture will then be in danger," he added.

Jessica Jackson, Vice President of Environment, Health and Safety at Apache Corporate, stated that "If you look at the lifecycle of an oil and gas worker, becoming complaisant is a problem, especially that many have been on the jobs for years." Jessica added that this is not a "one size fits all challenge; every culture and operating are being different."

GLOBAL SUSTAINABILITY IN ENERGY AWARDS CEREMONY



The Sustainability in Energy Conference was concluded by the Sustainability in Energy Awards Ceremony.

The awards were divided into five categories, addressing the oil and gas sector's successful projects and leaders that aim at creating a better and safer future.

The first category of the awards was for the Best Environmental Project of the Year.

The winner was Petrobel which was awarded for the desalination plant freshwater withdrawal reducing project. The winner of the highly commended award was Baker Hughes for their integrated watershed management and soil carbon content enhancement project.

The award for Best CSR Project of the Year was awarded to ANOPC for their corporate social responsibility project. Chevron won the award for its highly commended project for empowering women to be future innovators.

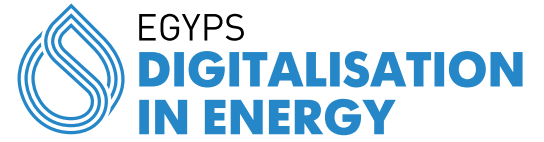
Badr El Din Petroleum Company was awarded the Best Health Project of the Year for its initiative in food safety and hygiene management in remote locations. The highly commended project award was given to Rashid Petroleum Company for their health risk assessment (HRA) project.

The Best Safety Project of the Year was awarded to TotalEnergies for their Suez Depot technical truck inspection centre project. Meanwhile, Methanex got the highly commended project award for its process safety management

framework created for the Egyptian oil and gas sector project.

The last category of the awards was for the Best Digitalization Project of the Year. The winner was the Egyptian Liquefied Natural Gas (ELNG) company for the HSE barrier management dashboard project. Meanwhile, Baker Hughes won the highly commended award for their multi-sensor data assimilation and model-driven analytics project.

REVAMPING THE ENERGY OPERATIONS THROUGH A DIGITAL FRAMEWORK



On the second day of the Digitalisation Zone activities, visitors of the Egypt Petroleum Show had the chance to enjoy several insightful presentations that tackled well operations, safety, and analytics.

Chris Fair from Oilfield Data Services engaged the audience with his technical knowledge around "Creating Dashboards And Threat Arrays From Surveillance Data," using the program called Nodal. Fair covered the topics of Well Safety, Well Failures, and Well Drilling Analytics.

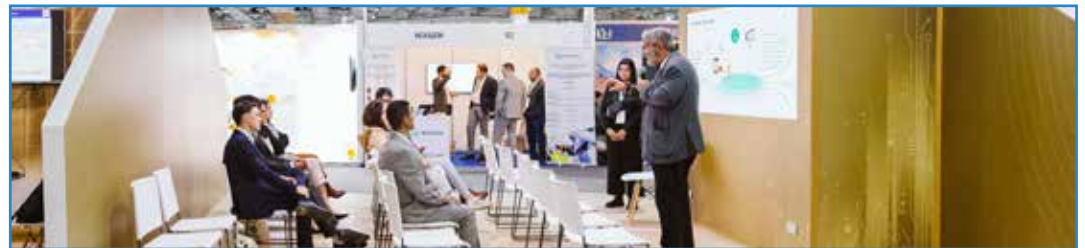
Another presentation was done by Humberto Malave from Magellan X PTE shed the light on the topic of "Propeller Solution". A session by Vedran Prica from Feromihin D.O.O brought insightful knowledge covering "Electronic Line Break Control". "Closing The Skills Gap Through Digital Replicas" was the title of another interesting session presented by Ahmed Alaa from Voovio.

Voovio generates a 3D Digital Replica of assets and production units. Its hyperrealism assists operation units with onboarding, induction, remote intervention planning and understanding complex processes that are accessible from any mobile or desktop.

Based on his experience Alaa engaged in an interesting discussion to conclude that "utilizing enhanced reality technology minimizes human errors".

One of the most important features of EGYPS is Digitalisation in Energy, which exhibits a range of themes including artificial intelligence, big data, blockchain technology, cybersecurity, drilling automation equipment, drones, equipment sensor, integrated operations centre, machine learning, network infrastructure, robotics, and 4D seismic images.

The digitalization event provides a platform to share cutting-edge technological solutions and groundbreaking knowledge in artificial intelligence and digitalization that can make a difference in operating efficiency, reduce costs and increase productivity.



DAY 3, WEDNESDAY 15TH FEBRUARY, 2023

11:30 - 12:15

SOL-X Solution



Thomas Deepak Xavier
MAGELLAN X PTE. LTD



14:00 - 14:45

Implementing best practices to enhance operator proficiency



Ahmed Alaa
Voovio



15:00 - 15:45

Blind Reservoir Mapping from Pressure and Rate Data



Chris Fair
Oilfield Data Services Inc



16:00 - 16:45

Calibration device for LBC under the brand name RIKI



Mr. Vedran Prica
Feromihin d.o.o.



SCHEDULE OF CONFERENCES

WEDNESDAY 15 FEBRUARY FINANCE & INVESTMENT IN ENERGY CONFERENCE	10:00 - 10:15	10:15 - 11:00	11:00 - 11:45	11:45-12:30	13:30 - 14:15	14:15 - 15:00	15:00 - 15:45	15:45-16:30
	Ministerial Keynote Speech Transforming Egypt into a regional energy trading hub	Panel discussion Capitalising on investment opportunities in North Africa and the East Mediterranean	Panel discussion Solving Europe's gas supply in the short and long term through targeted investments	Panel discussion Accelerating decarbonisation and energy security through public private partnerships	Panel discussion Overcoming the market impacts of ESG investment constraints	Panel discussion Africa Focus: The role of natural gas to drive economic growth and reduce energy poverty	Panel discussion Financing the energy transition	Panel discussion The evolving role of a CFO as a catalyst for digital transformation

WEDNESDAY 15 FEBRUARY EQUALITY IN ENERGY CONFERENCE & AWARDS	10:00 - 10:15	10:15 - 11:00	11:00 - 11:45	11:45 - 12:30	13:30 - 14:15	14:15 - 15:00	15:00 - 15:45
	Keynote address Reinventing the workplace and workforce of the future	Panel discussion Building a net zero-ready workforce	Panel discussion Harnessing the power of change management for an agile culture	Panel discussion Attracting Millennials and Gen Z into the energy sector	Global Equality in Energy Awards Ceremony	Lighting talks and audience Q&A <ul style="list-style-type: none"> The digital future: closing the skills gap Managing the unconscious bias in pay and promotion Creating an equitable, diverse and inclusive culture for a greener future 	Panel discussion Gender equality and the role of women in the clean energy transition

TECHNICAL SESSIONS

19 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, Operations and Technology (GAS)	Midstream: Transportation, Storage and Infrastructure (MID)	Offshore and Marine Technology and Operations (MAR)	Oil and Gas Economics, Concession Agreements and Project Finance (FIN)
Project Management and Execution (PM)	Operational Excellence (OpEx)	Health, Safety (HS)	Environmental Sustainability, Climate Change and Energy Transition (ENV)	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)	

WEDNESDAY 15 FEBRUARY		ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5
	Time					
	10:00-11:30	CATEGORY: DIGI SESSION 31 Data science, predictive analytics and artificial intelligence	CATEGORY: OPEX SESSION 32 Cost optimisation and asset integrity	CATEGORY: CONV SESSION 33 Innovation in prospect evaluation	CATEGORY: FD SESSION 34 Unlocking the potential of mature fields	CATEGORY: ENV SESSION 35 Carbon capture, utilisation and storage (CCUS)
	11:30-13:00	CATEGORY: DIGI SESSION 36 Cyber security, safety and augmented reality	CATEGORY: OPEX SESSION 37 Maintenance and asset integrity	CATEGORY: CONV SESSION 38 Rock physics insights	CATEGORY: FD SESSION 39 Production optimisation and enhancement	CATEGORY: ENV SESSION 40 Circular economy case studies
14:00-15:30	CATEGORY: DIGI SESSION 41 Digital twins and IoT	CATEGORY: OPEX SESSION 42 Intelligent solutions and the role of technology to achieve operational excellence	CATEGORY: CONV SESSION 43 Addressing reservoir characterisation challenges	CATEGORY: FD SESSION 44 Integrated reservoir case studies	CATEGORY: ENV SESSION 45 Technology to enable environmental sustainability	

FINANCE & INVESTMENT IN ENERGY CONFERENCE AGENDA



Wednesday 15 February 2023

Ministerial Keynote Speech

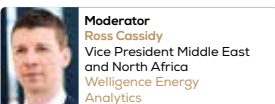
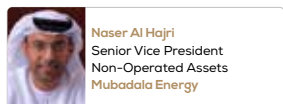
10:00 - 10:15

Transforming Egypt into a regional energy trading hub

Panel Discussion

10:15 - 11:00

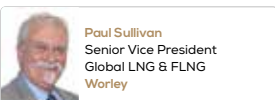
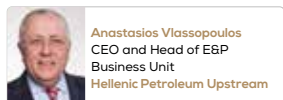
Capitalising on investment opportunities in North Africa and the East Mediterranean



Panel Discussion

11:00 - 11:45

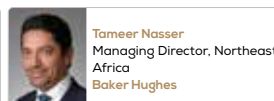
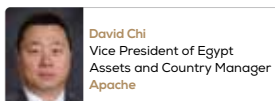
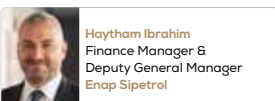
Solving Europe's gas supply in the short and long term through targeted investments



Panel Discussion

11:45 - 12:30

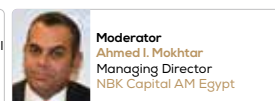
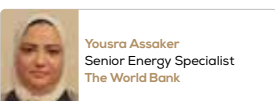
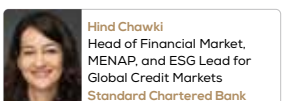
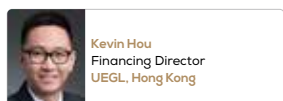
Accelerating decarbonisation and energy security through public private partnerships



Panel Discussion

13:30 - 14:15

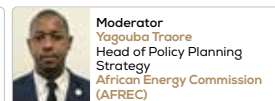
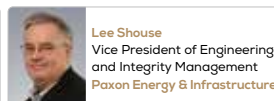
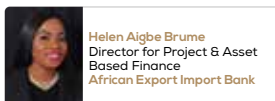
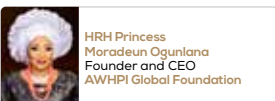
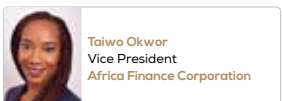
Overcoming the market impacts of ESG investment constraints



Panel Discussion

14:15 - 15:00

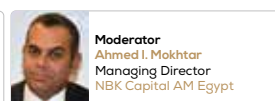
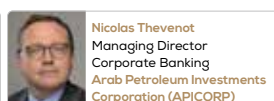
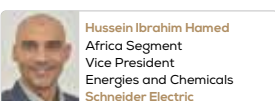
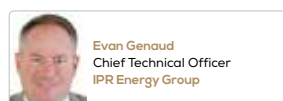
Africa Focus: The role of natural gas to drive economic growth and reduce energy poverty



Panel Discussion

15:00 - 15:45

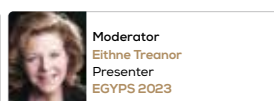
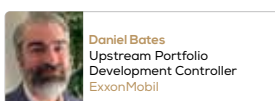
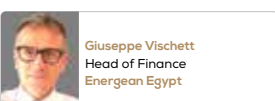
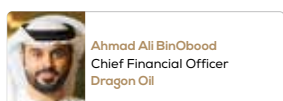
Financing the Energy Transition



Panel Discussion

15:45 - 16:30

The evolving role of a CFO as a catalyst for digital transformation



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SEARCH

the exhibitor and product list



NAVIGATE

the exhibition floor plan



VIEW

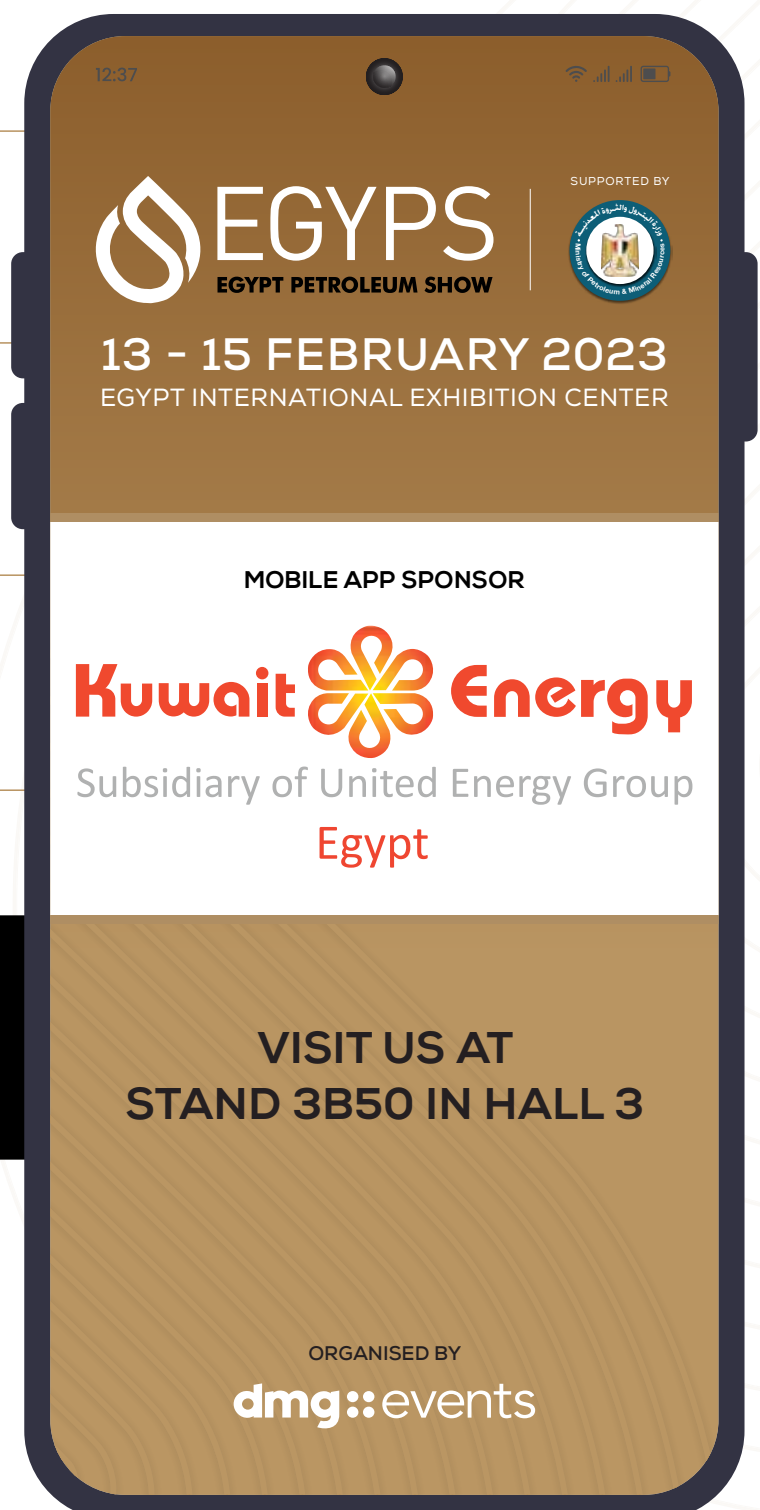
speakers and conference sessions



SCHEDULE

onsite meetings

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EQUALITY IN ENERGY CONFERENCE AGENDA



Wednesday 15 February 2023

Keynote address

10:00 - 10:15

Reinventing the workplace and workforce of the future



Petra Angstmann
Senior Vice President Global
Human Resources
Wintershall Dea

Panel discussion

10:15 - 11:00

Building a net zero-ready workforce



Moath Al Rawi
Chief Executive Officer
ARGAS



Gaydaa Elfakahany
Head of Human Resources
and Administration Division
thyssenkrupp Industrial
Solutions Egypt



**Moderator
Eithne Treanor**
Presenter
EGYPS 2023

Panel discussion

11:00 - 11:45

Harnessing the power of change management for an agile culture



Brandy Jones
Vice President
Human Resources
Apache



Latifa Aal Said
Global DEI Director &
TPS HR Director MENA
Baker Hughes



Edgar da Costa
Director of Finance,
Procurement, and Information
& Communication Technology
National Authority of Petroleum
and Minerals (ANPM)



Dr. Sherif Aboelgheit
General Manager
Procurements and
Supervising HR Division
ENPPI



Celestina Raggi
Vice President
of Human Resources
for Middle East & Africa
Emerson



Ahmed Farid
Regional HR Manager
Shell



**Moderator
Sofija Janosevic**
Human Resources Director
The Energy Year

Panel discussion

11:45 - 12:30

Attracting Millennials and Gen Z into the energy sector



Manal Messiha
Vice President Customer
Satisfaction & Quality
Schneider Electric



Aldo Costantini
General Manager &
Managing Director
Energean AQP



Abubakr Ibrahim
Vice President
& General Manager
IPR Energy



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



Soukaina Chefchaoui
Legal Counsel for North Africa
ENGIE



**Moderator
Enas Shabana**
Communications & Media
Relations Specialist East
Mediterranean Gas Forum
(EMGF)

13:30 - 14:15

Global Equality in Energy Awards Ceremony

14:15 - 15:00

Lightning talks and audience Q&A

The digital future: closing the skills gap



Fatema Choudhury
Chief Operating Officer
Magellan X

Managing the unconscious bias in pay and promotion



Juliette Murray Lamotte
Middle East and North Africa
Human Resources Manager
SLB

Creating an equitable, diverse and inclusive culture for a greener future



Susanne Mikhail Eldhagen
Regional Director
UN Women Office for the Arab
States

Panel discussion

15:00 - 15:45

Gender equality and the role of women in the clean energy transition



Eleanor Rowley
Managing Director Egypt
Capricorn Energy



Amru Alabidi
Senior Vice President
Oman, UAE, Iraq and North
Africa
Worley



Lamé Verre
Co-founder & Board Co-chair
Lean-in Equity & Sustainability



Marla Wright
Global Business Development
Manager
Bechtel



**Moderator
Eithne Treanor**
Presenter
EGYPS 2023

EGYPS GLOBAL EQUALITY IN ENERGY AWARDS

AWARDS FINALISTS

WOMEN IN LEADERSHIP SPONSORED BY **Capricorn**



Shahira Osman
Regional Branded Workshops Channel Manager



Heba Rezk
Senior Commercial Manager



Omnia Bekheit
Investment and Financial Planning General Manager



Sherine Soliman
Marine Channel Manager

STEM STAR OF THE YEAR SPONSORED BY **Enppi**



Marwa Maghraby
Process Engineer



Mariam Shreif
Student

NEX-GEN FEMALE OF THE YEAR SPONSORED BY **Apache**



Maureen Amir
Completions Engineer



Sherin Ismail
Associate Technical Professional



Lamees Sultan
Offshore Site Engineer



Miral Tawfik
Reservoir Engineer



EGYPS YOUNG PROFESSIONALS

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More Engaging Sessions for Young Professionals

The second day of the EGYPS 2023 Petroleum Show included the Young Professional Programme students participating in engaging sessions led by the sector's young talents.

One of the programme's sessions discussed the possibility of green hydrogen being the energy of the future. The session was led by Ahmed Sultan, Petrophysics Department Manager, Tharwa Petroleum Company. The discussion revolved around the future of green hydrogen, highlighting what exactly happened recently and whether it gave the industry hope that green hydrogen could play a major role in the decarbonisation process.

Later on, Hamed Aboelkhair, Lecturer at the British University in Egypt delivered a session on the application of technologies in the energy industry. In this session, students

were given an introduction to big data, AI, Blockchain, VR, and AR technologies, and learned about the importance of applying them in the energy industry.

Meanwhile, A'laa Samy Rizk, Bp North Africa Nigeria & Ghana IT service Owner ICF ACC Coach, continued her session from the previous day on cyber security for digital society and the youth of today. The session highlighted the value of being aware and the urgency for youth to ensure the protection of their online privacy. Rizk talked about the importance of having strong passwords, suggesting creating a password from a sentence like "I travelled to Lebanon in 2018" in a creative way using letters and numbers like IT2Li2018, advising attendees to use different passwords for each website. She also explained the necessity of being discreet in social media as in real life as any unnecessary information can cause a person to be hacked.

Another session on leadership skills was delivered by Rabaa Radwan, Lubrication Field Engineer, ExxonMobil Egypt. The session shed the light on the importance of leadership skills and how it boosts communications. Radwan further tapped on the skills used in the workplace to lead one's team to success.



EGYPS YOUTH ENGAGEMENT PROGRAMME

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EGYPS 2023 YOUTH PROGRAMME EMPHASISES IMPORTANCE OF HYDROGEN, CHEMICAL ENGINEERING

In its sixth edition, the Egypt Petroleum Show (EGYPS) is hosting the 4th annual edition of its Youth Engagement Programme as part of the sector's effort to prepare and empower future petroleum youth.

The programme provides an onsite learning experience where high school students from Egypt's STEM education system (focused on Science, Technology, Engineering and Mathematics) were given the chance to attain a deeper understanding of the oil and gas industry as well as explore future career options within the sector.

It consists of several zones including; artificial intelligence, cybersecurity, engineering, electrical engineer, entrepreneurs, offshore rigs, robotics, and sustainability.

During the second day of EGYPS, two impressive sessions were provided to the students to give them more knowledge about the significance of hydrogen energy and

chemical engineering. The first session was presented by Ahmed Sultan, Manager of the Petrophysics Department at the Tharwa Petroleum Company under the title of "What is Green Hydrogen and Its Importance?" During this informative session, Sultan gave more information about green hydrogen and its current necessity in decarbonization and the energy transition.

The second session was given by Marwa El Maghraby, a Process Engineer at Enppi, titled "Why I Became a Chemical Engineer." Through her inspiring presentation, she gave an overview of the chemical engineering field and her role as a chemical engineer within the sector, elaborating further on her academic and career journey. At the end of her speech, El Maghraby opened the floor for questions, giving students yet another rich opportunity to quench their curiosity about the field.

El Maghraby expressed her pleasure in participating as a speaker at the EGYPS Youth Engagement Programme, "That was my second participation in EGYPS and sharing knowledge is one of the important things in my journey as a process engineer as I believe in the social responsibility and inspired with helping people. That is why I am here in EGYPS and I will be here in the next years," she said.

Moreover, El Maghraby said that the event was very successful and her interaction with the students was beneficial, pointing out that they showed an eagerness to learn throughout the session.



تحت رعاية صاحب السمو الشيخ محمد بن زايد آل نهيان، رئيس دولة الإمارات العربية المتحدة
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The Future of Energy - Join the Conversation

ADIPEC is the largest and most inclusive gathering for the global energy industry. Hosted by ADNOC, the event facilitates high-level strategic dialogue and international collaboration to deliver tangible actions towards a responsible and realistic energy transition.



The Exhibition

Unlock millions of dollars worth of new business

95% of attendees at ADIPEC are decision makers, purchasers or influencers. Attracting more than 2,200 exhibiting companies, 28 international country pavilions and more than 160,000 attendees from 164 countries, ADIPEC attracts real buying power from around the world.

Specialised industry areas

Alongside the exhibition, ADIPEC 2023 will host specialised zones, enabling the global energy industry to strengthen existing business partnerships and form new models of cross-sector collaboration to drive future business.

Maritime & Logistics Zone

Connecting the maritime community and the global energy industry

Smart Manufacturing Zone

Transforming the future of global manufacturing

Decarbonisation Zone

Creating decarbonisation strategies for a sustainable future

Digitalisation in Energy Zone

Helping technology and energy companies realise the full benefits of digitalisation in energy



The Conferences

The ADIPEC 2023 conference programmes will provide strategic and technical insights, hosting over 1,500 ministers, global policy makers and energy CEOs. The conferences welcome more than 15,000 delegates, discussing key trends shaping the future of energy, including the challenges and opportunities of the energy transition, geopolitical factors influencing energy markets, new finance and partnership frameworks and the latest technical developments.

ADIPEC conferences include:

- Strategic Conference
- SPE Technical Conference
- Hydrogen Strategic Programme
- Smart Manufacturing Strategic Conference
- Smart Manufacturing Technical Conference
- Maritime & Logistics Conference
- ADIPEC Forum for Diversity, Equity and Inclusion
- Decarbonisation Conference
- Future Leaders Programme
- Downstream Technical Conference

160,000

Energy professionals

54

NOCs, IOCs, NECs and IECs

1,500

Conference speakers

2,200

Exhibiting companies

15,000

Conference delegates

28

Country pavilions

350

Conference sessions

164

Countries represented

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GENERATING MOMENTUM FOR FUTURE ENERGY PROSPERITY

An interview with Dr. Mahmoud Dabbous, Founder, Chairman and CEO of IPR Group

Could you tell us how IPR Energy Group evolved to the status it enjoys today?

Founded in 1981, the IPR Energy Group comprises specialised upstream oil and gas companies with a unique amount of global experience and resources. We are an expert petroleum engineering firm that implements turnkey EOR field development projects focused on reservoir simulation and production optimisation in the public sector.

We are happy to have expanded into our core business of international E&P operations with the most advanced technology to optimise the

What were your most prominent achievements in Egypt in 2022?

The acquisition of 55% Operated Working Interest in the EL Fayum Development Lease, and North Beni Suef Exploration License in the Western Desert, marked IPR's most prominent achievement in 2022 as it occurred during the main fairway of the global pandemic. This increased IPR's reserves Gross portfolio by 2P 38 MM barrels. Production enhancement was also applied in IPR assets by using: Waterflooding, Stimulation (Fracturing & Acidizing), Pump Optimization, Smart Completions, Sidetracking & horizontal drilling, and Field Compression.

What is IPR Energy's strategy to enhance operational efficiency?

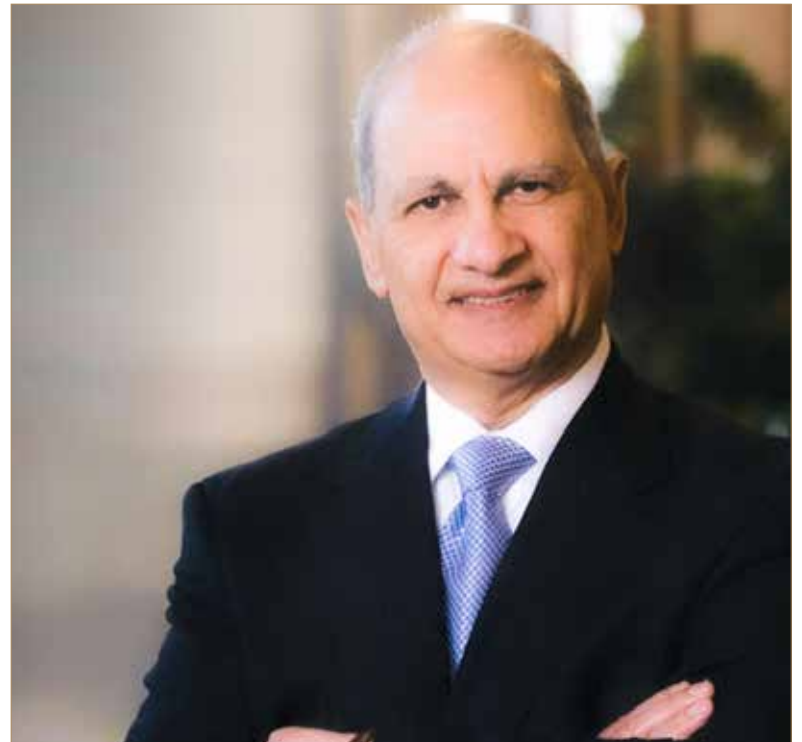
IPR's professionally integrated team creates multi-dimensional plans to attain well defined and benchmarked strategies with performance goals. This strategy is enhanced through field-wide surveillance and monitoring while balancing risk, cost, and performance. Lessons learned are utilised effectively in optimising the plan.

What are your aspirations for EGYPS 2023?

The EGYPS conference will serve as a forum for business best practices and technology transfer to industry participants through various speaking engagements as a session leader or programme moderator in the technical, financial and HSE disciplines. Networking with industry peers will also serve as a conduit to expanding opportunities.

What is IPR Energy's strategy to strengthen its position as a leading energy company?

IPR's strategy is to strengthen its position as a leading independent energy company by wisely growing organically through the application of state-of-the-art technologies, and inorganically, by being vigilant as a risk-taker.



What is your market outlook for Egypt?

IPR market outlook for Egypt is positive, given the recent willingness by the government to amend agreements in favour of investors and by negotiating higher gas prices to be more in line with global market conditions. As the availability of USD increases, undoubtedly, so will investments in the country.

How may COP27 outcomes affect your activities in the coming period?

We were excited to participate in COP27 here in Egypt, which only strengthened the way IPR conducts its activities; zero-flare policy, reducing the consumption of diesel by using alternate resources (natural gas or national-grid electricity) and disposing of oil-free produced water in a sound environmental manner.

What role does CSR play in IPR Energy Group as a company?

Corporate social responsibility (CSR) activities are very important to us. These activities are regularly planned, monitored, and implemented in communities within the vicinity of our concessions. IPR Energy Group values open communications with all the communities it works in and enjoys strong relations with the relevant governmental authorities to

mediate the communication between its support services and these communities.

“IPR's professionally integrated team creates multi-dimensional plans to attain well defined and benchmarked strategies with performance goals.”



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exploitation of oil and gas globally. Through the use of company-owned equipment to serve both its own E&P business and external clients, IPR also provides a wide range of G&G and petroleum engineering services, field services, and training. IPR's field services mainly include eco-friendly drilling, workover, and pulling units; chemical, polymer, and gel services and supply; and water shutoff treatments.



تحت رعاية فخامة الرئيس عبد الفتاح السيسي رئيس جمهورية مصر العربية
HELD UNDER THE PATRONAGE OF HIS EXCELLENCY ABDEL FATTAH EL SISI, PRESIDENT OF THE ARAB REPUBLIC OF EGYPT



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Headquartered in Switzerland, PIPECARE Group is one of the global leaders in oil & gas pipeline In-line inspection and integrity management support.

By merging of LINSKAN, TURBOSCAN and Magnetic Pipeline Inspection services (MPIS) under the umbrella of PIPECARE GROUP. PIPECARE Group has inspected more than 750,000 KM of pipelines since inception (year 1999). We have inspected 3" to 56" size pipelines in more than 70 countries.

Built on a solid foundation, the PIPECARE Group provides a complete range of premium services for pipeline inspection and integrity management using our advanced technologies, including:

- › Pipeline Cleaning and Supply of Cleaning Tools
- › Caliper (Geometry) Inspection
- › High-Resolution Magnetic Flux Leakage Inspection (MFL)
- › Transverse Field Magnetic Flux Leakage Inspection (TFI)
- › Ultrasonic Wall Thickness Measurement (UTWM)
- › Ultrasonic Circumferential Crack Detection (UTCCD)
- › Ultrasonic Longitudinal Crack Detection (UTLCD)
- › Electromagnetic Acoustic Transducer Inspection (EMAT)
- › XYZ Mapping

We have a dedicated R&D team which is responsible for continuous advancement in ILI technology. We have more than 1000 ILI tools of various sizes.

PIPECARE Group has worked with major global intentional companies including Exxon Mobil, SERGAZ-ENI, Shell Global, Chevron, Total, ENI, Petronas, Petrobras, Gazprom, Lukoil, Saudi Aramco, Oxy, British Gas, Oxy, Sonatrach, GUPCO, Petroleum Development Oman, Qatar Petroleum.. etc.

In Egypt, Branch of PIPECARE DMCC (Previously Branch of LINSKAN Technology Group LTD) has been dealing with major clients in the Egyptian

Oil and Gas Market since 2010 including GUPCO, BAPETCO, WASCO, AMAPETCO, ZEITCO, NOSPCCO, SUCO .. etc.

This year we are excited to participate at EGYPS 2023. We would like to welcome all visitors to our booth, where they could find samples from our tool fleet and we would be happy to answer and clarify their queries about our products and services.

PIPECARE
INNOVATIVE SOLUTIONS

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PHOENIX MECANO INDIA AT EGYPS 2023

Phoenix Mecano AG is a Swiss-German company, known globally for its Explosion proof solutions, sold under its flagship brand "Rose Systemtechnik GmbH".

Phoenix Mecano India, a wholly owned subsidiary of Phoenix Mecano AG and is the group's largest

manufacturing hub is also entrusted with the responsibility of handling the African and Middle-east markets along with the Indian market. Our extensive portfolio of Explosion-proof solutions such as Junction box, Local Control panel, Plug & Sockets, Distribution panel, Wifi Junction box, Lighting panels, Battery enclosures etc. are carrying various international certifications like IECEx, Atex, UL, INMETRO, TRCU, CE, PESO, CCE etc. These products are available in several MOCs like Die-Cast Aluminum, GRP Polyester, Stainless steel and are supplied following world-class product quality, engineering and safety standards.

Following are the key strengths, for which we are known in the market:

1. Products supplied with "best in class German" quality standard, along with high level of flexibility



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and engineering customisation based on customer's application needs.

2. High level of competitiveness when it comes to commercials and delivery lead-time.

As an organization, we whole heartedly strive to become a reliable solution partner for our customers by

offering highly engineered solution based on the application needs as well as flexibility and reliability when it comes to manufacturing & delivery.

What sets Phoenix Mecano India apart from the competition is our humility in approach and our honest

efforts as a team to go that extra mile to understand our customers' need - and then respond by delivering the right solution with high quality solution in a consistent manner.

SNAP-ON OFFERS THE FINEST SOLUTIONS IN MARKET

From one-of-a-kind kits to thousands of identical tool sets, no one does tool kitting like Snap-on.

No matter how big or small the application, Snap-on's robust, flexible and scalable capabilities enable us to create a versatile range of kitting solutions - from stationary, mobile and transportable sets and much more.

We supply kits for everything from servicing copy machines, to maintaining and repairing tanks, helicopters, oil rigs and jumbo jets. Standard or custom, large or small - from our state-of-the-art kitting centre, Snap-on does it all.

HEAVY DUTY SOCKETS FOR INDUSTRIAL APPLICATIONS

Everyone knows that a Torque Wrench is only as good as the socket it uses. That's why Snap-on creates only the best Impact Sockets. Manufactured from special alloy steel and heat treated for optimum strength and durability, Snap-on Impact Sockets are rugged enough to tighten and break out even the most stubborn fasteners.

With drive sizes from 1/4" to 2-1/2" in multiple depths, plus specialty

created for specific applications,



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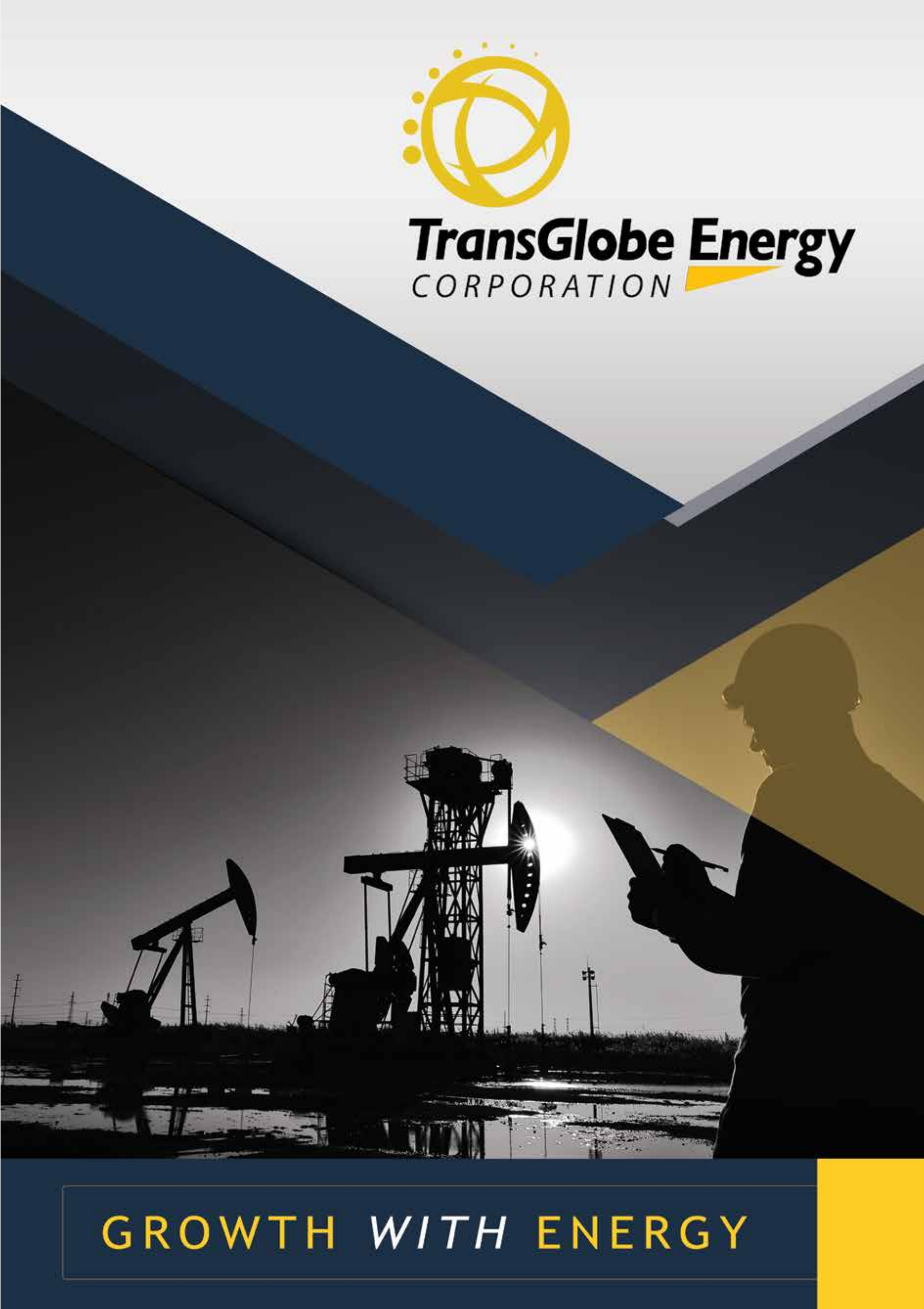
Snap-on has the right Impact Sockets for any industry.

Our company is proud to participate in EGYPS 2023 as one of the Middle East's finest events to attend and exhibit at for the oil and gas industry. Our stand is equipped with all the features needed to keep our customers well-informed about our latest products and services. Company staff who will attend the event would be more than happy to answer any questions customers may have.

Contact your Snap-on Industrial Representative today for a full listing of the sockets you need for your area of need.



TransGlobe Energy
CORPORATION



GROWTH WITH ENERGY

EMC CELEBRATES ITS SILVER JUBILEE UNDER THE SLOGAN OF 25 YEARS OF COMMITMENT.

EMC was honoured with the presence of His Excellency Eng. Tarek El Molla, Minister of Petroleum and Mineral Resources, who paid tribute to the distinguished active role of EMC over the last 25 years of providing integrated services solutions through its diversified portfolio inside and outside oil and gas sectors.

EMC was established as Joint Venture between Egyptian Petroleum Corporation (EGPC) and its affiliated companies and Aibel for the purpose of maintenance industry localisation in the Egyptian petroleum sector by providing integrated services solutions with optimum safety and quality standard, inside and outside Egypt, such as in Iraq, Jordan, Libya, Algeria, Saudi Arabia, Abu Dhabi, Angola.

EMC developed its wide scope over 25 years to include and cover global maintenance services, modification and construction services, specialized workshops service and asset integrity, offshore maintenance service, turbines maintenance service, facility management services and energy efficiency and power generation service to many sectors such as oil production and services, Natural Gas production and services, refining sector, liquefied natural gas (LNG) plants, petrochemicals sector, industrial sector, transportation sector, medical sector, renewable energy and efficiency energy, etc.



STAND NO: 2E30 HALL 2



Aligning with the Egypt vision 2030 and Egyptian oil and gas strategy, EMC succeed to execute many projects in renewable energy and energy efficiency fields.

In addition, EMC is so keen and interest to apply worldwide principles at work environment as participation in the United Nation Global Compact (UNGC).

EMC also distinguished to be ranked among the top 250 global contractors according to ENR classification for international contractors to be No. # 216.

TÜV NORD; SAFETY AND INNOVATION, MADE IN GERMANY FOR 150 YEARS

TÜV NORD is a German company specialised in third-party inspection, certification, testing and training, having a presence in more than 100 countries worldwide. The company is considered one of the market leaders in steam and pressure technology, pipelines and chemical plants, materials technology and more than 20 other fields of plant and machine construction.

Exports make up around two-thirds of sales totalling hundreds of billions of euros. TÜV NORD has accompanied this impressive success story for 140 years.

Our experts have been providing safety, quality and increased efficiency since TÜV NORD was founded. Our knowledge benefits major corporations, medium-sized



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companies and small businesses. Whether for major petrochemical plants or electrical engineering companies, we will help you protect your employees and the environment and satisfy your customers with the highest level of quality. For more details, please visit www.tuv-nord.com



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Egytrans is a leading transport and logistics company with more than 40 years' experience handling all sorts of logistics services to its customers. Services include global land, sea and air freight, project logistics solutions, customs brokerage, warehousing and supply chain management.

Today's energy market is more dynamic than ever, with demand expected to keep rising while resources become more diverse and dearer, and competition keener. The energy sector tends to operate in harsh and challenging conditions. In the face of these challenges, energy companies are redefining their business models with a view to finding partners to perform their non-core activities. In particular, they are looking for logistics partners.

At Egytrans, we are a leader in offering comprehensive management concepts and flexible solutions for all kinds of support needed. Our expert teams develop and implement integrated, multimodal transportation concepts designed specifically for the complexities of the energy industry and other sectors which include renewable energy, oil & gas, mining and metals, power generation, thermal, nuclear and water treatment among others.

Egytrans offers clients the tools necessary for flawless supply chain management and for managing projects.

Multimodal transportation -
Domestic transportation - Customs brokerage - Warehousing - Consolidation,
- Sea freight services - Air Freight - heavy lift - Transport engineering: feasibility studies, route surveys
- Loading / discharging supervision
- Heavy lift transportation: lifting, inland, barge, ocean & turnkey project management

The end-to-end service model ensures full visibility on our

customer's supply chain. Our teams are well trained and experienced with their requirements. A flexible commercial model reduces costs.

Together with the customer, we established a customized set of key performance indicators (KPI)



STAND NO: **2B75** HALL **2**

to measure our performance on a regular basis and continuously improve our services

To know more about our services, please visit us during EGYPS at our stand no 4B75 in hall 4



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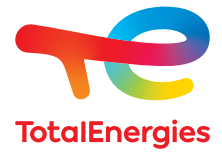
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2B40 at Hall 2

Social Responsibility is a core company value. We commit to act responsibly to protect life, health and the environment, while respecting the rights, culture and dignity of all employees, stakeholders and our communities in line with global principles for Sustainable Development. We aim to deliver shared benefit and support those whose livelihoods depend on the location around our facilities, those who are vulnerable or disadvantaged and local communities who supply our workforce and service. Our 'Culture of Care' delivers social investment at a corporate level and through our joint operated companies either directly or in partnership with the Ministry of Petroleum and EGPC.

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