

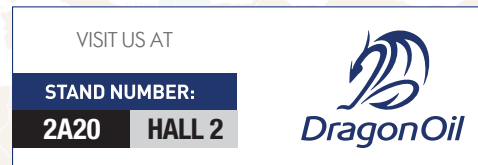
EGYPS NEWS

EGYPT PETROLEUM SHOW

11-13 February 2019

Egypt International Exhibition Center

Supported By



Official Publication



SHOW DAILY

DAY 1

EGYPS 2019:

BOOSTING NORTH AFRICA'S ENERGY SECTOR

The Egypt Petroleum Show (EGYPS) is North Africa and the Mediterranean's most important oil and gas exhibition and conference held under the patronage of His Excellency Abdel Fattah El Sisi, President of the Arab Republic of Egypt, where oil and gas professionals convene to engage in dialogue, create partnerships, do business and identify solutions and strategies that will shape the industry for future years.

EGYPS plays an important role in Egypt's journey towards expanding its oil and gas partnerships in the national, regional, and international markets. The event turns Egypt into the meeting point for a great number of industry leaders, decision-makers, investors, and stakeholders; and enables the establishment of several new partnerships during the three-day exhibition.

EGYPS' magnitude reflects Egypt's efforts to modernise its oil and gas industry and promote the country's position as a regional energy hub. The event is an excellent platform to share Egypt's achievements and attract new investments to the sector. The rich business environment promoted by EGYPS is a crucial asset to meet the Ministry of Petroleum and Mineral Resources' expectations with the Egyptian oil and gas sector Modernisation Project.

EGYPS is a key platform in the regional scene that focuses on the challenges faced by the North African and Mediterranean energy arena, with unprecedented opportunities for cooperation and integration to meet the growing demand and support a sustainable development.

EGYPS' MAGNITUDE REFLECTS EGYPT'S EFFORTS TO MODERNISE ITS OIL AND GAS INDUSTRY AND PROMOTE THE COUNTRY'S POSITION AS A REGIONAL ENERGY HUB.



“ I AM VERY OPTIMISTIC FOR OUR SECTOR'S FUTURE AND EXCITED TO SEE THE FRUITS OF ALL THESE REFORMS AND FURTHER ACHIEVEMENTS IN THE COMING YEARS. ”

HIS EXCELLENCY TAREK EL MOLLA

Minister of Petroleum and Mineral Resources, Arab Republic of Egypt



Aspiring Excellence through Innovation



dragonoil.com

Growing with Partnership

Visit us at
EGYPS 2019
Booth #3B30
in Hall 3

DEA is an active player and partner in the Egyptian energy sector since 1974. We have so far produced more than 650 million barrels of crude in the Gulf of Suez, via SUCO, our operating joint venture company with EGPC. We are successfully producing gas from the Disouq development project in the Onshore Nile Delta. And, we are proud to be partner in West Nile Delta, one of the currently most important energy projects in Egypt – and there is more to come.

Growing with **Energy**



BUILDING ON EGYPT'S ACHIEVEMENTS

H.E. ENG. TAREK EL MOLLA, EGYPT'S MINISTER OF PETROLEUM AND MINERAL RESOURCES

SINCE EGYPS 2018, HOW HAS THE EGYPTIAN PETROLEUM SECTOR DEVELOPED DURING THE PAST YEAR?

The year of 2017 was a truly remarkable year for the Egyptian oil and gas sector and this was clear in the last edition of EGYPS, where we showcased all these achievements. The challenge in 2018 was to build on all of these successes and ensure a sustainable growing sector, which I believe we were able to do.

Looking back at 2018, we were able to sign 12 new oil and gas exploration agreements with total investments of \$275 million. We reduced our partner arrears until it reached only \$1.2 billion. We were able to gain trust of all of our international partners and invite even more investments into the sector. We created Egypt's first digital data bank and we are currently finalising the launch of the Egypt Upstream Gateway, which will hold all data online, allowing easier accessibility for investors.

We worked on the upgrade of refineries, where studies were developed for the new hydrocracker and gasoline complex at Suez governorate for high quality refined products with total investments of \$2.35 billion. We also worked on expansion of terminals, transmission and gas pipelines and oil and gas infrastructure. We implemented energy efficiency measures in highest consumption refineries yielding annual savings of EGP 348 million.

Our four main gas development projects - West Nile Delta, Noros, Atoll and Zohr - were able to transform Egypt from a country with major energy shortage to one of the largest gas producers in the region. Zohr field surpassed our expectations as the production level reached 2 billion cubic feet (bcf) last September. The sector this year witnessed 50% increase in natural gas production as compared to previous years, which allowed it to be self-sufficient. All these achievements in the gas sector is a step closer for Egypt to become a regional oil and gas hub.

To ensure a sustainable growing sector, it was crucial to enhance the sector from the organisational point of view. We have already completed legal, administrative and first phase of financial due diligence for the new sector structure to create an agile sector able to compete in the current environment. We created sector governance. In order to improve

“TO ENSURE A SUSTAINABLE GROWING SECTOR, IT WAS CRUCIAL TO ENHANCE THE SECTOR FROM THE ORGANISATIONAL POINT OF VIEW.”

decision making, we implemented ERP in SOE's and rollout for affiliates to integrate information.

We believe that our people are the building foundation of this sector and we need to focus more on them. Looking at this, we created a human capital database to understand the available talents and develop programmes to enhance them. We also recently launched the first phase of the middle-management development programme according to a systematic and scientific approach to empower youth to become the future leaders of the sector. We are changing the culture of the whole sector to be performance based.

I am very optimistic for our sector's future and excited to see the fruits of all these reforms and further achievements in the coming years. I am sure that we are in the right path and looking forward next month to celebrate all our sector's accomplishments during the exhibition.

EGYPS 2019 INCLUDES THE YOUTH ENGAGEMENT PROGRAMME, WHICH HIGHLIGHTS THE IMPORTANCE OF THE DEVELOPMENT OF YOUTH. WHAT DOES THIS MEAN TO THEM? AND WHAT MEASURES ARE BEING TAKEN TO ASSURE THE ROLE OF OUR YOUNG PROFESSIONALS IN THE INDUSTRY IN THE NEAR FUTURE?

One of the most important pillars within our Modernisation Project is dedicated mainly for human capital; we even named it "people programme", as it is our most important asset. The performance of the sector in terms of governance and identifying talent management is a key aspect of success.

This programme mainly focuses on "best utilisation of our human capital". The first step was to identify the available talent pool where the team worked on establishing a unified integrated database that includes all sector employees, followed by analysing the data of all companies across the sector through creating SWOT analysis. This allowed us to have a better view of the employees' competencies and skills, the strength and weaknesses of capabilities in each company and opportunities available in others, which enabled us to assign the right person in the right place.

I personally always say that the future of any industry depends mainly on its youth, so we needed to concentrate more on building our youth talents in the sector. It is crucial to understand how to identify, develop and retain such talented people, to generate a dynamic pool of qualified young individuals prepared and equipped to take high-level responsibilities in the



“IT IS CRUCIAL TO UNDERSTAND HOW TO IDENTIFY, DEVELOP AND RETAIN SUCH TALENTED PEOPLE, TO GENERATE A DYNAMIC POOL OF QUALIFIED YOUNG INDIVIDUALS PREPARED AND EQUIPPED TO TAKE HIGH-LEVEL RESPONSIBILITIES IN THE FUTURE.”

HIS EXCELLENCY TAREK EL MOLLA
Minister of Petroleum and Mineral Resources,
Arab Republic of Egypt

future. I focus on empowering youth to move forward and lead the sector for a better future.

In order to identify these talented youth within the sector, we launched the Middle-Management Programme. We mainly focused on how to select the young talent with equal opportunity. The whole process was based on transparency. The programme offered a competitive chance for young professionals who have the passion, commitment and capability to lead our future growth.

The programme was an extraordinary experience for all participants and the team involved in the implementation. It introduced a new culture where assessment and evaluation were the criteria for selection.

We are also working on empowering the youth and engaging them with the top levels, and I started this myself by appointing two 'minister's assistants' in their 30s to make use of the youth power and energy and also to get the experience needed to become successful future leaders.

WELCOME FROM THE ORGANISERS OF EGYPS 2019

A very warm welcome to the third edition of the Egypt Petroleum Show (EGYPS) – North Africa and the Mediterranean's largest oil & gas conference and exhibition.

The Egypt Petroleum Show held under the high patronage of the President, His Excellency Abdel Fattah El Sisi, and with the support of the Ministry of Petroleum and Mineral Resources, is set to welcome over 20,000 oil and gas industry professionals from across the globe to connect, network and do business with more than 400 regional and international exhibiting companies from more than 20 countries on the exhibition floor spread across 3 halls of the Egypt International Exhibition Center.

The exhibition features 8 NOCs, 16 IOCs and 13 International Country pavilions displaying innovative technologies, and industry solutions spread across 35+ product categories covering the entire oil and gas value chain (upstream, midstream, and downstream).

The 33 Technical Conference sessions, spread over three days, will host over 120 expert speakers from across the globe covering topics on oil and gas processes, project updates, digitalisation, Health, Safety and Environment, Critical and Physical Security, and Project Management and implementation amongst others. The Technical Conference will take place in the Plaza this year, located above Exhibition Hall 2.

The two day Strategic Conference panel discussions will include a ministerial panel, global business leaders' panels, Leadership Panels, and CEO Roundtable Discussions where the future of Egypt, North Africa and Mediterranean's exciting oil and gas sector will be firmly under the spotlight.

Now in its second year, the Finance & Investment Briefings will be held over two days as a Lunch and Brunch Briefing dissecting investment opportunities in the oil and gas sector with focus on Egypt, North Africa & the Mediterranean.

New for 2019, are the half day Security In Energy Forum and HSE Excellence In Energy Forum & Award Ceremony – both of which are extremely important to the oil and gas industry globally, and are a focus of the Ministry of Petroleum & Mineral Resources modernisation and development agenda.

A new feature for 2019 is the Youth Engagement Programme developed in collaboration with the Ministry of Petroleum & Mineral Resources and its Modernisation Project offering an onsite learning platform engaging with high school students within the framework of STEM Education focusing on Science, Technology, Engineering and Mathematics to ultimately encourage students to pursue careers in the oil and gas industry.

Returning for its third edition is the one-day dedicated Women In Energy Conference, hosting six panel sessions focusing on advancing women participation within the workforce, creating diverse and inclusive workspaces, and engaging with young talent to build a robust oil and gas industry of the future. Also returning is the second edition of the Women In Energy Awards ceremony that will be held in the latter part of the day; honouring female talent across technical and non-technical functions in the oil and gas sector.

On behalf of the co-organisers of EGYPS 2019, dmg events and ACG-ITF, we would like to once again extend a very warm welcome to all our exhibitors, speakers, delegates, and visitors.

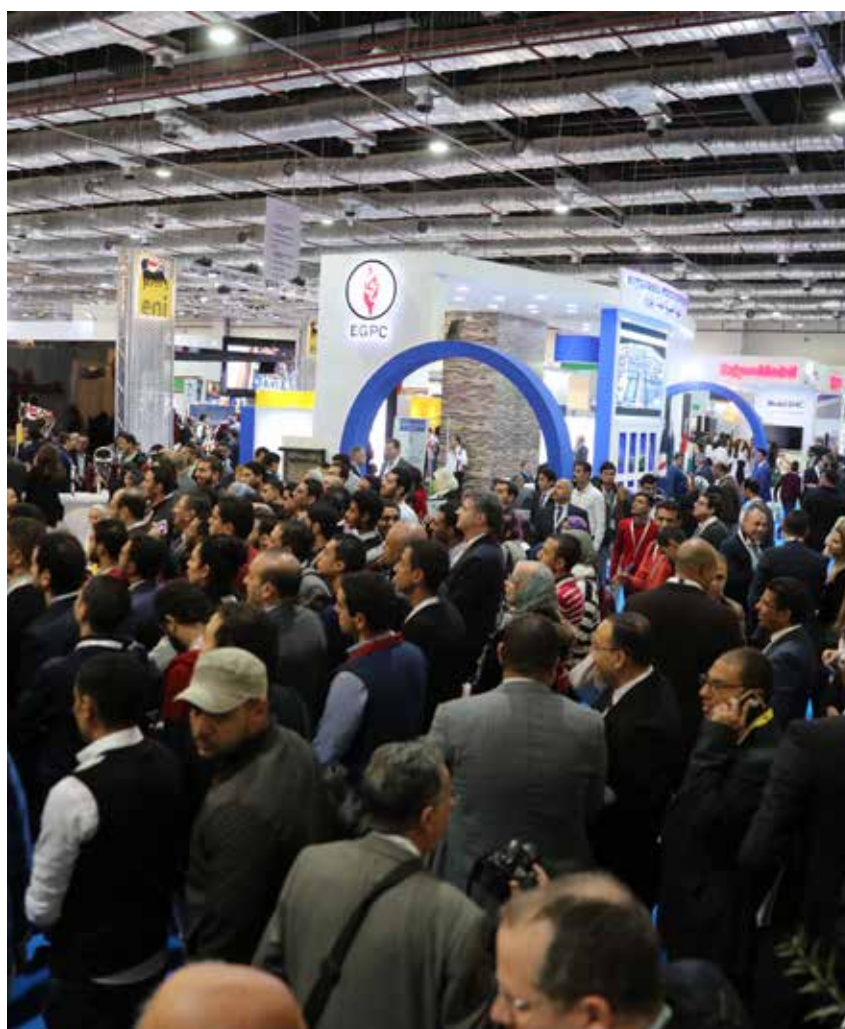


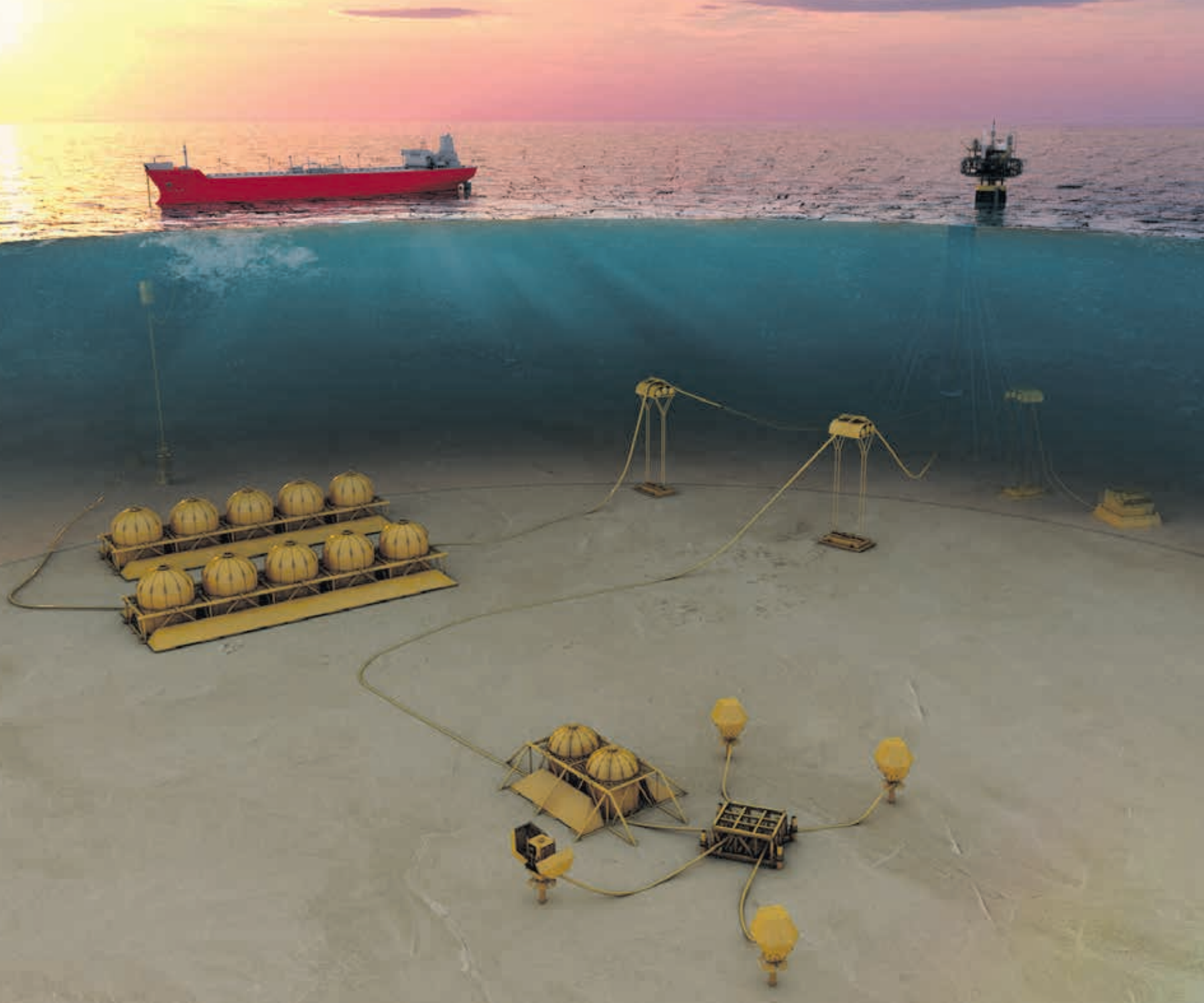
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APACHE'S STRIDES IN THE EGYPTIAN PETROLEUM SECTOR: AN INTERVIEW WITH DAVID CHI, REGION VICE PRESIDENT AND GENERAL MANAGER, APACHE EGYPT COMPANIES

HOW DOES EGYPT COMPARE TO OTHER COUNTRIES WHERE APACHE OPERATES?

Egypt has been a critical part in Apache's portfolio for many years and it will continue to be so for the foreseeable future. We are in the process of transitioning and optimising our global portfolio; building premier assets with the ability to generate strong profit and growth for all stakeholders. Our assets in the country fit perfectly with our strategy to deliver value and growth. Our concessions are located in the Western Desert of Egypt, which is one of the most prolific basins in the world. For that reason, we have generated billions of dollars in the last two decades and grew from a very humble beginning to become one of the premier companies in Egypt. For any exploration and production (E&P) company to be premier, it needs to have not only a very strong hydrocarbon resource base, but it also requires a very strong human resource base. Our success in Egypt is not simply due to the world-class asset base we have, but it is also a result of a diverse team who shares the values of continuous improvement, innovation and a drive for results with a sense of urgency. I am very proud to say that Apache today has very strong business in all the areas we operate, and Egypt is no exception.

HOW DO YOU SEE EGYPT'S INVESTMENT CLIMATE?

The Egyptian economy is in a state of constant improvement. We are seeing better gross domestic product (GDP) growth rates of 5.5% in 2Q 2018-19, lower inflation of 14.4% during the first half of fiscal year (FY) 2018/2019, and lower budget deficit of 2.3% in 1Q FY 2018/19. With the IMF fueled reform program addressing economic imbalances, in addition to improved credit ratings by international agencies and the governmental efforts in removing bureaucratic hurdles, Egypt is in a solid position to attract foreign investments in all economic sectors. The petroleum sector, specifically the Ministry of Petroleum under the leadership of H.E. Eng. Tarek El Molla, has been actively supporting a better investment climate by liberalising the gas market through the new gas law, launching a petroleum modernisation program, lowering the level of receivables, and actively promoting new exploration acreage through bid-rounds. When you combine the competitive advantages Egypt possesses, such as a growing population both in quantity and capability; a large domestic market; ideally situated geographical location, with the strong reform programs by the government, I believe this great nation really has all the ingredients to be successful for the long run.

WHAT DOES APACHE EXPECT TO ACHIEVE IN 2019?

2018 has been a very strong year for Apache Egypt. We delivered outstanding production and financial performance as well as made continuous and significant advancement in our plan of opportunity inventory building. Our Joint Venture Khalda Petroleum Company, which is the leading JV oil producer in the country, broke their all-time hydrocarbon liquids production record last year. In 2019, we expect to continue delivering superior and exceptional performance in all fronts of our business, maximising our return on capital employed, which will benefit all stakeholders including our host nation Egypt and our shareholders. We will also be ready to reap the fruits of the significant investment and efforts we've made in our 3D broadband seismic project as well as the new acreage that we acquired in the last two years. I believe 2019 will be a pivotal year where we lead the way to revolutionise the oil production future in Egypt.

WHAT IS YOUR MESSAGE FOR NEW INVESTORS TO SUCCEED IN EGYPT?

The Egyptian government has been putting a lot of effort into improving the economy and the investment environment. What new investors in Egypt should keep in mind is that this great nation is going through a transformation and it has lots of opportunities in pretty much all sectors of the economy. The current government is also genuine in their desire to make things better and more efficient for investors. Therefore, one of the key ingredients to success is to actively working with and through the government and local communities. Another key to focus on is to identify the strength that each investor can offer, and try to match that with the local environment, sector, and business model that can amplify the value creation proposition. Like elsewhere in the world, identifying and building long lasting, and win-win partnership is the key to success. Apache's track record and accomplishments is the best testimony that foreign companies can generate significant value for all their stakeholders in Egypt.

WHY IS THE EGYPT PETROLEUM SHOW AN IMPORTANT EVENT FOR APACHE?

EGYPS has been a window for the outside world to see the significant improvements and the abundant opportunities that exist in the Egyptian oil and gas sector. The event features 24 international and national oil companies and over 200 speakers with a wealth of experience and knowledge. With 23 years of exploration, development, and production operations in Egypt, Apache believes it is imperative to contribute to and to benefit from the dialogue

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and the dissemination of knowledge that are bound to take place at this important event. We are a key part of the Egyptian economy and its oil and gas industry, being the largest oil producer in country, the leading gas producer onshore, the most active driller, the biggest acreage holder, a technology leader and one of the nation's largest investors. We feel the strong desire and the need to support this great conference.

AS THE SPONSOR OF THE NEX-GEN FEMALE OF THE YEAR AWARD THIS YEAR, HOW DO YOU SEE THE OIL AND GAS SECTOR EMPOWERING THE NEXT GENERATION OF FEMALE EMPLOYEES?

Female professionals are Egypt's untapped potential. We are now finding that female graduates are of an equal if not better standing academically than their male counterparts, and we also know that a more diverse workforce is often a more creative and productive one. The challenge is in representation. We need to allow more opportunities for women in the workplace, especially the petroleum sector which traditionally is more dominated by men around the globe. The only way to empower the next generation is by giving them an equal chance of employment and benefits. This will only be achieved through a change of culture and mindset- and this is not particular only to Egypt. Female professionals globally need to be viewed as an integral part of the work force that can equally create and contribute. Only then can women not only be properly represented in organisations but also be empowered enough to lead them. In addition, we also need to communicate our support for women to a wide-audience, so potential employees will be interested to look into our industry for potential career opportunities. Apache firmly believes in supporting next generation of female employees and is fully committed to continue making progress in this very important area.

WHAT TO EXPECT DURING YOUR VISIT

Egypt Petroleum Show (EGYPS), the largest oil and gas exhibition and conference in North Africa and the Mediterranean, is launched in its 3rd edition under the theme 'Delivering the Energy Needs of Tomorrow'.

First launched in 2017 under the patronage of His Excellency Abdel Fattah El Sisi, President of the Arab Republic of Egypt, EGYPS provides an opportunity for local and global businesses to identify new markets, investment opportunities, and keep up to date with market trends, newest industry solutions, and innovative technologies.

Through its conferences, EGYPS focuses on technical and strategic aspects of the oil and gas sector as well as on the role of women in energy; finance and investment; health, safety and environment (HSE); and security practices, with a wide range of discussed topics ranging from new discoveries, downstream diversification and integration, to data-driven operations, artificial intelligence applications and digital innovations.

In EGYPS, policy-makers, industry stakeholders, and leading investors have a platform for dialogue, creating partnerships, and laying out strategies that will shape the industry for years to come.



REGIONAL AND INTERNATIONAL KEY EXHIBITING COMPANIES INCLUDE

National Oil Companies



International Oil Companies



International Service Providers & EPC Companies



A GLIMPSE OF THE PRIVATE SECTOR PARTICIPATION IN THE EGYPTIAN PETROLEUM INDUSTRY:

AN INTERVIEW WITH ALI RASHID AL JARWAN, CEO, DRAGON OIL

WHAT MAKES EGYPT AN ATTRACTIVE MARKET FOR DRAGON OIL?

Egypt is known to be an attractive petroleum province with a wide local oil field services market and strong infrastructure to capture all new production. The country is a centre of attraction to many international oil companies (IOCs) to come in and acquire resources in Egypt. The political and economic stability in addition to the new investment regulations and reforms in Egypt are the key reasons for investors to explore the Egyptian market.

Dragon Oil is looking to expand its footprint and compete to be one of the eminent players in the Egyptian market. Dragon Oil owns the East Zeit Bay offshore concession, located in the southern Gulf of Suez. The concession covers an area of 93 square kilometres and lies in shallow waters ranging in depth from 10 to 40 metres. Spud date for our first well East Zeit Bay-1 was on the 6 February 2019 and we plan to drill two back to back wells during 2019. Due to the united efforts between the government and the Dragon Oil team, all our obstacles were facilitated smoothly; which pushed forward our progression in the country.

HOW DO YOU SEE THE EGYPTIAN OIL AND GAS SECTOR GROWING IN THE NEAR FUTURE?

Egypt's government aims to make a 25% increase in foreign investments in the oil and gas sector, as foreign companies have been endorsing investment in major gas projects in the Mediterranean since 2018.

In addition, there are strong possibilities for the discovery of large amounts of gas and crude oil in the Red Sea area and that will be very encouraging for IOCs to invest in Egypt.

Essentially, Egypt has become an important spot on the international oil and gas map after major findings were made off its Mediterranean coast. The discoveries include the Zohr field, which has positively affected the IOC's perception on investing in Egypt's deep waters.

HOW IMPORTANT IS THE EGYPT PETROLEUM SHOW TO THE INDUSTRY AS AN ANNUAL MEETING PLACE?

EGYPS 2019 is the most important oil and gas exhibition and conference in the region, where oil and gas professionals exchange information,

enrich their technical knowledge, highlight businesses, investment in opportunities, and facilitate networking.

Held under the patronage of His Excellency Abdel Fattah El Sisi, President of the Arab Republic of Egypt, EGYPS features more than 400 exhibiting companies from different countries to enhance the interaction between government representatives, key project owners, NOCs and IOCs.

WHAT IS YOUR MESSAGE FOR INTERNATIONAL INVESTORS WHO WANT TO JOIN THE EGYPTIAN OIL AND GAS SECTOR?

I personally encourage the international investors seeking a safe environment and stable economy with onshore and offshore opportunities, to explore the Egyptian market, with less risk compared to other countries.



“ DRAGON OIL IS LOOKING TO EXPAND ITS FOOTPRINT AND COMPETE TO BE ONE OF THE EMINENT PLAYERS IN THE EGYPTIAN MARKET. ”





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EGYPS 2020 EXHIBITION



33,000
Gross sqm



17
International Oil Companies



25,000
Attendees



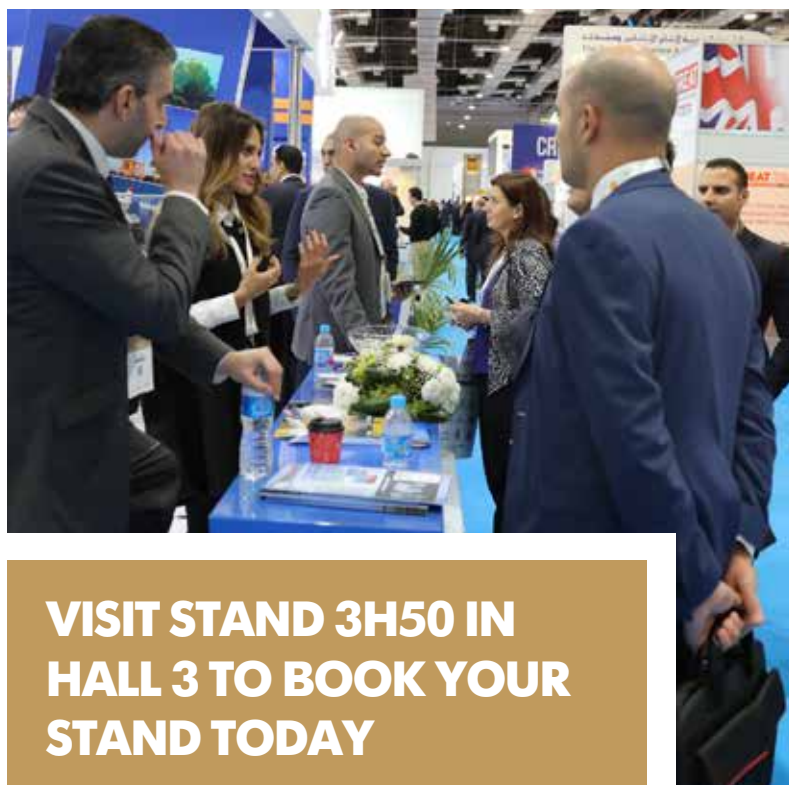
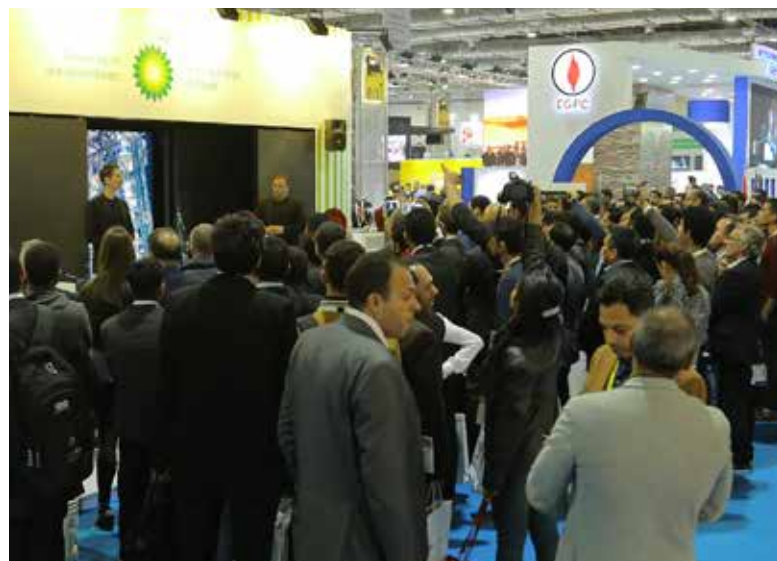
10
National Oil Companies



450
Exhibiting Companies



14
Country Pavilions



EGYPS 2020 CONFERENCE



1,300+
Conference Delegates



8
Women In Energy Sessions
and Awards Ceremony



230+
Expert Speakers



6
Security in Energy Sessions
and Roundtables



36
Technical Posters



6
HSE in Energy Sessions
and Award Ceremony



38
Technical Sessions



4
CEO Strategic Roundtables



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STRONG ROOTS IN THE EGYPTIAN SECTOR: AN INTERVIEW WITH GASSER HANTER, SHELL'S CHAIRMAN AND VICE PRESIDENT EGYPT

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HOW DOES SHELL PLAN TO EXPAND ITS ACTIVITIES IN EGYPT?

Shell has been active in Egypt for over a century, with a portfolio that spans onshore and offshore exploration and production activities; in both the Western Desert and the Mediterranean Sea, as well as LNG and oil lifting. We are also a market leader in lubricants in Egypt, with a significant market share.

Over the last 5 years our onshore production has risen by more than 20% through our joint-venture, Badr El-din Petroleum Co. (Bapetco). In 2018 – through our other JV Rashid Petroleum Co. (Rashpetco) we have launched a new offshore drilling campaign – phase 9B – in the Mediterranean, that brought additional production onstream only 6 months after the start of the drilling campaign and ahead of schedule thanks to the collaborative efforts of the JV Rashpetco and Shell Egypt.

We continue to bring new technology to Egypt in our drive to enhance production and reduce cost to remain competitive and maximise value for the shareholders and the country, the latest example of which is pioneering the use of Fishbones technology in the Western desert. The Bed 9-G well was successfully drilled and completed with state of the art Fishbone completion and tested on 1 December yielding significantly higher rates than previously expected.

In addition we're currently drilling the Obaiyed H18 well – the first endeavor in Egypt to unlock tight gas in deep hard rock proving the concept is feasible. Without the need to frack the tight reservoirs, the long reach horizontal well will increase productivity by enhancing well contact area to reservoir. This promises to unlock the tight gas potential of Obaiyed field that contain a significant volume of gas in tight clastic (sandstone) reservoirs through deploying long-reach horizontal completion with lower cost. We are actively looking at domestic gas trading opportunities, working hard on establishing a gas trading entity in country by utilising our expertise in other parts of the world such as Shell Energy Europe.

Finally, Shell is constantly exploring business opportunities to expand our footprint and solidify our position as key player in country as part of Shell's growth strategy.

COULD YOU TELL US ABOUT SHELL'S 9B PROJECT?

The West Delta Deep Marine (WDDM) Phase 9b project is the product of a unique and integrated approach; combining both development and exploration activities, while leveraging Shell global expertise and technology – therefore

extending the life of WDDM by unlocking potential for the entire West Delta Deep area. Phase 9b includes the drilling of eight new development wells during 2018 and 2019 as part of a wider ongoing development plan. In addition to the development wells that came onstream in 2018, a significant offshore gas discovery was made via the Swan-East-1 well a month back, which is scheduled to come on stream before end of this year. This discovery opens additional potential prospectivity in the Messinian Play within WDDM, which could be developed through future campaigns. We have also taken a decision on a new exploration campaign in the WDDM concession area starting in Q4 2019 targeting deeper horizons.

WHICH SECTORS OF THE INDUSTRY SHOULD INVESTORS AND THE GOVERNMENT TARGET TO BOOST GROWTH, AND HOW?

There are several areas that show promising returns if targeted, a key one of which is digitalisation. We believe this can drive cost efficiency, eventually change business models and redefine our industry. To achieve this, technology deployment is essential both in the fields but also in how the wealth of data held in the sector is managed. Finally investing in the local industries that serve and support the oil and gas sector will create clear value that will trickle down to the wider economy and ensure a rise in local content and sustainable knowledge transfer.

IN YOUR OPINION, HOW DOES THE MINISTRY OF PETROLEUM'S MODERNISATION PROJECT FACILITATE THE OPERATIONS OF IOCS IN EGYPT?

Shell is partnering with the ministry of petroleum on its ongoing Modernisation Project, which is set to 'modernise' the entire oil and gas sector. Such reforms have given foreign investors including Shell the incentive to grow their investments in the country. The programme is - by design – based on industry consultation, and therefore allows for an open dialogue with key energy players.

A key part of the programme is the Joint Venture modernisation where Shell signed a collaboration agreement with EGPC in EGYPS 2018 to pilot our high-performer BAPETCO joint-venture for implementing Modernisation principles in mature JVs, a project we're highly proud of.

I'm also very pleased to also see that the youth development aspect is materialising as a pillar of the Modernisation Project as we have seen with the youth professionals and middle management programmes. Finally, Shell supports the country's energy hub



vision and the Ministry of Petroleum's Vision to unlock the sector's full value chain potential as a growth and sustainable development engine. Having a free market for energy that attracts regional and international players is key. Egypt has competitive advantages (strategic geographic location, existing infrastructure, stable macroeconomic environment, and a growing local market) that support this vision.

WHAT DOES THE EGYPT PETROLEUM SHOW REPRESENT TO SHELL?

We are proud to be participating in the biggest oil and gas event in North Africa. Shell has been a Diamond Sponsor of EGYPS since its inception in 2017, a testament to our belief in its strategic importance. At the EGYPS 2018, Shell was awarded the title of "Employer of the Year" by H.E. Eng. Tarek El Molla, Minister of Petroleum & Mineral Resources. This year, Shell has been shortlisted for the same category.

In EGYPS 2019 Shell is represented by several speakers on a variety of panels covering strategy, women in energy, security and HSE.

Moreover, at the exhibition, Shell will be displaying the company's social investment programmes which are: Shell Intilaaqah, NXplorers, Shell Eco-Marathon, Imagine the Future, in addition to Al Amal programme, in which Shell is the main sponsor. Shell's social investment programmes focus on capacity building for Egypt's youth, demonstrating the company's commitment to enabling the country's young people and local communities. At Shell, we are keen to continuously work with the Egyptian government hand-in-hand to support the country's vision and road map to achieve the Egypt Vision 2030.

The EGYPS 2019 Youth Engagement Programme is an onsite learning platform engaging with high school students within the framework of STEM Education focusing on Science, Technology, Engineering and Mathematics to ultimately encourage students to pursue careers in the oil and gas industry. Four purpose built Experiential and Edutainment Zones will provide a learning platform for all students on the exhibition floor. The zones will be designed to stimulate student engagement with sensory experiences of sight, smell and feel workshops.

VISIT THE YOUTH ENGAGEMENT PROGRAMME IN HALL 1

THE PROGRAMME OFFERS 4 EXPERIENTIAL AND EDUTAINMENT ZONES

NEW FOR 2019



EGYPS
YOUTH
ENGAGEMENT
PROGRAMME

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ExxonMobil



Museum Zone

which will have an interesting journey exploring the discovery, extraction and production of oil and gas in Egypt. Students will have the opportunity to walk through time and learn key milestones of the history of the Egyptian oil and gas industry.



Oil & Gas Cinema

This zone will be set up as cinema theatre with colorful seats and will provide the students an opportunity to learn about Oil and Gas through watching selected movies.



Health and Safety Zone

In this zone students will gain awareness about the hazards of working in oil & gas fields. Students will learn the importance of site safety, current regulations, equipment choices and available solutions.



Engineering Zone

In this zone students will learn some of the engineering design processes. Students will work as a team in building a prototype of a specific project that will be given to them upon their arrival to the zone. Students will learn the following skills: Problem solving, big thinking and team working skills.

DIGITALISATION IN ENERGY

Fostering the digital transformation of the oil and gas sector, EGYPS 2019 provides a dedicated focus on digitalisation in energy with an all-encompassing exhibition zone that provides the essential building blocks for the industry to embark on its transformation journey. The advent of a second digital age is upon us and the time to adapt, adopt and implement the wave of new technological advances that will unleash unparalleled productivity and significantly boost performance, is now. The zone encompasses a Digitalisation In Energy theatre with mini sessions taking place by the exhibitors, showcasing their digital innovations that will enhance productivity, increase the lifetime of projects and enable savings on capital expenditure.

EXHIBITOR PROFILES INCLUDE

 ARTIFICIAL INTELLIGENCE	 BLOCKCHAIN TECHNOLOGY	 CYBER-SECURITY	 EDGE COMPUTING	 BIG DATA
 MACHINE LEARNING	 EQUIPMENT SENSORS	 CLOUD COMPUTING	 ROBOTICS	 DRONES

NEW FOR 2019

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VISIT THE DIGITALISATION ZONE IN HALL 1

Monday 11 February 2019












TIME	SESSION TITLE
14:30 - 14:40	Right tools for the optimum Plant Wide condition monitoring plan (Under Equipment/Sensors category) Ibrahim Seydaliyev, Baker Hughes, a GE company
14:45 - 14:55	Digital Transformation Rizkallah Nicolas, Engagement Manager, Digital Solutions Consulting, Schlumberger Egypt & East Mediterranean Region
15:00 - 15:10	Applying a Digital Approach for More Efficient and Effective Wells Wael Koroosh, Senior Technical Consultant, Halliburton
15:15 - 15:25	Maximising the Value of E&P Data Using High Scalability Data Management Strategy and Game Changing AI Capabilities Mohamed Lamine Selmane, Industry Architect, Global Energy Practice, Dell EMC

TIME	SESSION TITLE
15:30 - 15:40	Introduction to ICOM Company Eng.Yasser Soliman, General Manager, Mega Communication
15:45 - 15:55	G5 Process Simulator Interface for Planning Models that are more Accurate and Easier to Maintain Randy Bozarth, Vice President, Haverly Systems
16:00 - 16:10	Digitisation of Oil & Gas Operations Using Operations using Integrated Production and Accounting Solutions - Production Solutions Pratul Talaha, Director (Business Development), P2 Energy Solutions
16:30 - 16:40	Z+F Laser Scanning Intelligent Modelling Thanner Jonas / Ezzat Sabry, Application Engineer / Managing Director, Z+F / Geomalex

TIME	SESSION TITLE
16:45 - 16:55	Voice of the Oil Field Wael Koroosh, Senior Technical Consultant, Halliburton
17:00 - 17:10	DELFI Hassan Diaa, Data and Infrastructure Lead/NME DELFI Champion, Schlumberger Egypt & East Mediterranean Region
17:15 - 17:25	Geoscience Enhanced User Experience Mohamed Lamine Selmane, Industry Architect, Global Energy Practice, Dell EMC
17:30 - 17:40	Successful Story Optimising ERC Business Malek El Masri, Business Development Manager, Haverly Systems

TIME	SESSION TITLE
17:45 - 17:55	ICOM PRODUCTS (LAND Radios) Eng.Yasser Soliman, General Manager, Mega Communication
18:00 - 18:10	Digitisation of Oil and Gas Operations Using Integrated Production and Accounting Solutions - Oil & Gas Accounting for International Ventures Maher Ben Salem, P2 Energy Solutions
18:30 - 18:40	Reality Modelling and Digitalisation Marwan Dahi, Business Development Manager, Geomalex

SCHEDULE OF

11 TECHNICAL CATEGORIES	 E&P Geoscience (GEO)	 Gas Processing Technology and Operations (GPTO)	 Gas to Power Generation Technology and Operations (PGTO)
 Operational Excellence, Maintenance and HSE (OEMH)	 Oil, Gas and Unconventional Field Developments (OGUFD)	 Offshore Technology and Operations (OTO)	 Downstream: Refining Technology, Operations and Marketing (DRTOM)
 Drilling and Completions (DC)	 Project Management, Engineering Technology and Implementation (PMETI)	 Downstream: Petrochemicals Technology, Operations (DPTO)	 Artificial Intelligence and Connected Performance Technology and Services (AICPTS)

TECHNICAL SESSIONS

DAY 1: MONDAY 11 FEBRUARY

14:00 – 15:30			15:30 – 17:00		
ROOM 1 Session 1: Geoscience – new approaches	ROOM 2 Session 2: Execution of offshore projects	ROOM 3 Session 3: The Artificial Intelligence & machine learning era of oil and gas	ROOM 1 Session 4: New promising exploration plays	ROOM 2 Session 5: Successful project implementation solutions	ROOM 3 Session 6: Ensuring oil and gas safety, cyber security and operational excellence
17:00 – 18:30					
ROOM 1 Session 7: Unlocking potential of mature basins	ROOM 2 Session 8: Mitigating project execution challenges	ROOM 3 Session 9: Smart digital oil and gas solutions			

TECHNICAL SESSIONS

DAY 2: TUESDAY 12 FEBRUARY

10:00 – 11:30			11:30 – 13:00		
ROOM 1 Session 10: New benchmarks for operational excellence	ROOM 2 Session 11: Refining & petrochemical integration and growth	ROOM 3 Session 12: Improving asset performance management with digital solutions	ROOM 1 Session 13: Achieving HSE and operational excellence	ROOM 2 Session 14: Refinery process enhancement	ROOM 3 Session 15: Subsea and offshore operations and developments
14:00 – 15:30			15:30 – 17:00		
ROOM 1 Session 16: Improving assets' integrity	ROOM 2 Session 17: Petrochemicals – integration, expansion and development	ROOM 3 Session 18: Subsea and offshore technologies	ROOM 1 Session 19: Successful green solutions applications	ROOM 2 Session 20: Improving energy efficiency in the oil and gas sector	ROOM 3 Session 21: Reservoir engineering, evaluation, monitoring and testing

TECHNICAL SESSIONS

DAY 3: WEDNESDAY 13 FEBRUARY

10:00 – 11:30			11:30 – 13:00		
ROOM 1 Session 22: Innovative techniques of drilling optimisation	ROOM 2 Session 23: Reservoir characterisation and new technologies	ROOM 3 Session 24: New developments in enhanced oil recovery	ROOM 1 Session 25: Well construction and wellbore stability	ROOM 2 Session 26: Advancements in seismic surveys and technology	ROOM 3 Session 27: Reservoir evaluations - challenges and lessons learned
14:00 – 15:30			15:30 – 17:00		
ROOM 1 Session 28: Artificial lift and completion challenges	ROOM 2 Session 29: R&D and gas processing enhancement	ROOM 3 Session 30: Field surveillance and smart digital oil fields	ROOM 1 Session 31: Production improvements and stimulation challenges	ROOM 2 Session 32: Acid gas treatment and sulphur recovery	ROOM 3 Session 33: Reservoir characterisation and integrated development planning

CONFERENCES

STRATEGIC SESSIONS

DAY 1: MONDAY 11 FEBRUARY

14:00 - 14:45 Ministerial Session Shaping the future: enhancing developed collaboration between nations, finding new energy balances and meeting the world's energy demands	14:45 - 15:30 International Organisations In focus interview... setting the energy balance – energy leaders unite to discuss the world's energy future	15:30 - 16:15 Global Business Leaders... fast-tracking production, accelerating momentum and achieving success through innovation and effective leadership
16:15 - 17:00 Global Business Leaders... the competitive dynamics of a disruptive gas and LNG industry	17:00 - 17:45 Global Business Leaders... pushing the boundaries for downstream innovation, consolidation and diversification	17:45 - 18:30 EGYPS CEO North African and Mediterranean Roundtables

STRATEGIC SESSIONS AND FINANCE AND INVESTMENT LUNCH BRIEFING

DAY 2: TUESDAY 12 FEBRUARY

10:00 - 11:00 Leadership panel... shifting global dynamics and connecting the energy dots: from production, consumption and industry growth	11:00 - 12:00 Leadership panel... building legacies, creating history: the successful alliance of North Africa and the Mediterranean countries to boost production and achieve mutual goals	12:00 - 13:00 Leadership panel... redefining the gas and LNG playing field: the role of the Mediterranean in becoming a gas hub and the next natural gas hotspot
14:30 - 15:30 Leadership panel... digitising the future – adopting disruptive innovations and paving the way for a connected, data driven world	15:30 - 16:30 EGYPS 2019 closing remarks... the bridge between East and West: building foundations for a sustainable future energy mix	13:00 - 14:30 CEO Finance & Investment Lunch Briefing

SECURITY IN ENERGY SESSIONS

DAY 2: TUESDAY 12 FEBRUARY

09:20 - 09:40 Welcome Remarks And Keynote Address	09:40 - 10:30 Panel discussion: Partnerships as a basis for employee and critical assets security	10:30 - 11:15 Panel discussion: Identifying the Achilles' heel of your cyber security strategy and protecting against costly cyber attacks
11:30 - 12:25 Interactive roundtables 1. Contingency plans, crisis management and critical emergency response 2. Security risk assessment and management	12:25 - 13:15 Panel discussion: The future of oil and gas security in Egypt, North Africa and the Mediterranean	13:15 - 14:15 Lunch and networking

HSE IN ENERGY SESSIONS AND FINANCE AND INVESTMENT BRUNCH BRIEFING

DAY 3: WEDNESDAY 13 FEBRUARY

09:20 - 09:30 Welcome Remarks	09:30 - 10:20 Panel discussion: Next generation HSE: achieving reduced incidents and reaching zero fatalities through company-wide safety cultures and effective safety management systems	10:20 - 11:10 Panel discussion: International best practices in creating healthier, safer and more sustainable working environments	10:00 - 11:30 CEO Finance & Investment Brunch Briefing
11:25 - 12:15 Panel discussion: Disrupting oil and gas HSE processes with state of the art smart digital solutions	12:15 - 13:00 Panel discussion: What is the future of oil and gas HSE in Egypt, the Middle East and the Mediterranean?	13:00 - 14:00 Lunch and EGYPS 2019 HSE Excellence in Energy Award	

WOMEN IN ENERGY SESSIONS

DAY 3: WEDNESDAY 13 FEBRUARY

09:20 Welcome Remarks And Keynote Address	09:45 Women In Energy: Why the time is right for Egypt, north africa & the mediterranean to capitalise on its biggest assets	10:30 Attracting, retaining, advancing & sponsoring women: A nice to have or must have to achieving bottom line success?	11:15 Digital fluency & gender parity: How are these interconnected & why does it matter?
12:00 The middle management: A bridge between the present & the future	14:00 The impact of culture on the workforce: Analysing how cultural cognitive biases affect diversity, inclusion, wages, and mentorship within the business	14:30 The future is young: Building and developing an agile, competent and diverse workforce of the future today	15:30 - 17:00 Women In Energy Awards

GLOBAL ENERGY LEADERS AND INFLUENCERS SPEAKING AT EGYPS 2019



**His Excellency
Tarek El Molla**
Minister of Petroleum
and Mineral Resources
Arab Republic of Egypt



**His Excellency
Shaikh Mohammed
Bin Khalifa Al Khalifa**
Minister of Oil
Kingdom of Bahrain



**His Excellency
Abdourahmane Cissé**
Minister of Petroleum
Energy and Renewable Energy
Cote d'Ivoire



**His Excellency
Santiago Mba Eneme Nsuga**
Secretary of State for
Mines and Hydrocarbons
Equatorial Guinea



**His Excellency
Mohammad Barkindo**
Secretary General
Organization of the Petroleum
Exporting Countries (OPEC)



**His Excellency
Mahaman Laouan Gaya**
Secretary General
African Petroleum Producers
Organization (APPO)



**His Excellency
Dr Xiansheng Sun**
Secretary General
International Energy
Forum (IEF)



**His Excellency
Abbas Al Naqi**
Secretary General
Organisation of Arab
Petroleum Exporting
Countries (OAPEC)



Dr Houda Ben Jannet Allal
General Director
Observatoire Méditerranéen
de l'Energie (OME)



Patrick Pouyanné
Chairman and CEO
Total



Bob Dudley
CEO
BP



Ibrahim Al-Buainain
CEO
Aramco Trading



Russell Hardy
Group CEO
Vitol



Stefano Cao
CEO
Saipem



Mathios Rigas
CEO
Energean



Ali Al Jarwan
CEO
Dragon Oil



Eng Abed Ezz El Regal
Chairman
Egyptian General
Petroleum Corporation
(EGPC)



Dr Patrick Allman Ward
CEO
Dana Gas



Maria Moræus Hanssen
CEO
DEA Deutsche Erdoel AG



Jean Cahuzac
Chief Executive Officer
Subsea 7



Massimo Mantovani
Chief Gas & LNG
Marketing and Power
Officer
Eni



Dr Symeon Kassianides
Executive Chairman
Natural Gas Public
Company (DEFA),
Cyprus



Eng Osama El Bakly
CEO
Egyptian Natural Gas
Holding Company
(EGAS)



Momar Nguer
President Marketing &
Services
Total

Including live interviews, CEO Roundtables, panel discussions and CEO Investment and Finance Briefings, the EGYPS 2019 Strategic Conference will focus on North Africa and the Mediterranean's journey in delivering the energy needs of tomorrow.



Grady Ables
Senior Region Vice President
Apache



Mahdjouba Belaifa
Head Gas Market Analysis
Department (GMAD)
Gas Exporting Countries
Forum Secretariat (GECF)



Dr Saad Helal
CEO
**Egyptian Petrochemicals
Holding Company
(ECHEM)**



Gavin Rennick
President, Software
Integrated Solutions
Schlumberger



Sébastien Condom
Global Chief Commercial
Officer – Digital
**Baker Hughes, a GE
company**



Giuseppe Ricci
Chief Refining &
Chief Marketing Officer
Eni



Dato' Abu Fitri Bin Abdul Jalil
CEO
PETRONAS Egypt Operations



Gasser Hanter
Chairman and
Vice President Egypt
Shell



Nick Boyle
CEO
Lightsource BP



Keith Elliott
Senior Vice President Offshore
Noble Energy



Richard Tyrrell
Chief Development Officer
and Board Member
Höegh LNG



Karim Badawi
Managing Director
Egypt and East Mediterranean
Schlumberger



Dr Magdy Galal
Vice Chairman for Operations
and National Gas Grids
**Egyptian Natural Gas
Holding Company (EGAS)**



John B. Habumugisha
General Manager
**National Pipeline
Company (U) Ltd**



Nicolas Katcharov
Vice President
North Africa and
Middle East Operations
Edison International

INDUSTRY LEADING FINANCIERS SPEAKING AT EGYPS 2019



Alan Haywood
CEO Global Energy
Trading
BP



Basil El-Baz
Chairman & Chief
Executive Officer
Carbon Holdings



Inderpal Singh
Senior Vice President
Mergers &
Acquisitions
**Mubadala
Petroleum**



Manav Futnani
Regional Head of
Export and Specialist
Finance, MENAT
HSBC



Alan Taylor
Partner
White & Case LLP



Artyom Sitnikov
Senior Banker, Natural
Resources Team
**European Bank for
Reconstruction and
Development (EBRD)**



Said Hanafi
Partner
White & Case



Mohasen Adel
CEO
**General Authority
for Investment &
Free Zones (GAFI)**



Tameer Nasser
Chief Financial
Officer
North Africa
**Baker Hughes,
a GE company**



Osama Kamal
Chief Strategy
Officer
Carbon Holdings



Panos Benos
Chief Financial
Officer
Energean



Karim Helal
Managing Director
Corporate Finance
& Investor Relations
Carbon Holdings



Philip Stopford
Partner
**White & Case
LLP**



**Counselor Amr
Noureldin**
Legal Advisor to
the CEO
**General Authority
for Investment &
Free Zones (GAFI)**

STRATEGIC SESSIONS IN FOCUS

Monday 11 February 2019

Al Manara Theatre

Including live interviews, CEO Roundtables, panel discussions and CEO Investment and Finance Briefings, the EGYPS 2019 Strategic Conference will focus on North Africa and the Mediterranean's journey in delivering the energy needs of tomorrow.

MINISTERIAL SESSION: SHAPING THE FUTURE: ENHANCING DEVELOPED COLLABORATION BETWEEN NATIONS, FINDING NEW ENERGY BALANCES AND MEETING THE WORLD'S ENERGY DEMANDS

TIMING: 14:00 - 14:45



His Excellency Tarek El Molla
Minister of Petroleum and Mineral Resources
Arab Republic of Egypt



His Excellency Shaikh Mohammed Bin Khalifa Al Khalifa
Minister of Oil
Kingdom of Bahrain



His Excellency Abdourahmane Cissé
Minister of Petroleum Energy and Renewable Energy
Cote d'Ivoire



MODERATOR

Eithne Treanor
Presenter
EGYPS 2019 & CEO
E Treanor Media

INTERNATIONAL ORGANISATIONS: IN FOCUS INTERVIEW... SETTING THE ENERGY BALANCE – OIL AND GAS LEADERS UNITE TO DISCUSS THE WORLD'S ENERGY FUTURE

TIMING: 14:45 - 15:30



His Excellency Mohammad Barkindo
Secretary General
Organization of the Petroleum Exporting Countries (OPEC)



His Excellency Mahaman Laouan Gaya
Secretary General
African Petroleum Producers Organization (APPO)



His Excellency Dr Xiansheng Sun
Secretary General
International Energy Forum (IEF)



His Excellency Abbas Al Naqi
Secretary General
Organisation of Arab Petroleum Exporting Countries (OAPEC)



Dr Houda Ben Jannet Allal
General Director
Observatoire Méditerranéen de l'Energie (OME)



MODERATOR

Dan Murphy
Correspondent
CNBC International

GLOBAL BUSINESS LEADERS: FAST-TRACKING PRODUCTION, ACCELERATING MOMENTUM AND ACHIEVING SUCCESS THROUGH INNOVATION AND EFFECTIVE LEADERSHIP

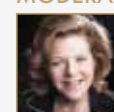
TIMING: 15:30 - 16:15



Patrick Pouyanné
Chairman and CEO
Total



Bob Dudley
CEO
BP



MODERATOR

Eithne Treanor
Presenter
EGYPS 2019 & CEO
E Treanor Media

GLOBAL BUSINESS LEADERS: THE COMPETITIVE DYNAMICS OF A DISRUPTIVE GAS AND LNG INDUSTRY

TIMING: 16:15 - 17:00



His Excellency Santiago Mba Eneme Nsuga
Secretary of State for Mines and Hydrocarbons
Equatorial Guinea



Massimo Mantovani
Chief Gas & LNG Marketing and Power Officer
Eni



Lorenzo Simonelli
Chairman and CEO
Baker Hughes, a GE company



Richard Tyrrell
Chief Development Officer and Board Member
Höegh LNG



MODERATOR

Charles Ellinas
Features Editor
Natural Gas World

GLOBAL BUSINESS LEADERS: PUSHING THE BOUNDARIES FOR DOWNSTREAM INNOVATION, CONSOLIDATION AND DIVERSIFICATION

TIMING: 17:00 - 17:45



Ibrahim Al-Buainain
CEO
Aramco Trading



Russell Hardy
Group CEO
Vitol



Momar Nguer
President Marketing & Services
Total



MODERATOR

Eithne Treanor
Presenter
EGYPS 2019 & CEO
E Treanor Media

CEO STRATEGIC Roundtables

Monday 11 February 2019

Running simultaneously, the North African & the Mediterranean CEO strategic roundtables will examine opportunities within the region's oil and gas industries, promote collaboration and knowledge share.

TIMING: 17:45 - 18:30

Strengthening the Mediterranean and North African upstream industry – project updates and upcoming opportunities

Al Manara Conference Hall A



Eng Abed Ezz El Regal
Chairman
Egyptian General
Petroleum Corporation
(EGPC)



Karim Badawi
Managing Director
Egypt and East
Mediterranean
Schlumberger

- Assessing Egypt's upstream opportunities: Zohr field's first phase in the deep waters of the Mediterranean Sea, second phase of the north Alexandria and west Mediterranean Sea fields, gas fields in north Damietta and Noras field in the shallow waters of the Nile Delta
- Highlighting the latest progress in the Cypriot Aphrodite gas fields, pipeline developments and transportation of natural gas from the EU to North Africa through Cyprus and Egypt
- Ensuring supply and sustainability with the gas and LNG SWAP agreement between Egypt and Jordan – what's next in the pipeline for these two countries?
- Exploring Greece's investment environment – the pursuit of new investors and strategic collaborations to exploit natural reserves

Getting to grips and retaining value within the Mediterranean and North African refining & petrochemicals industries: diversification, efficiency and smart growth

Al Manara Conference Hall B



Dr Saad Helal
CEO
Egyptian
Petrochemicals Holding
Company (ECHEM)



Giuseppe Rispoli
Executive Vice President
Portfolio Management,
Supply and Licensing
Eni Refining &
Marketing

- Evaluating the region's strategic location to secure feedstock and emerge as a petrochemical hub. Leveraging its vast gas reserves to increase production and transportation of petroleum and petrochemical products
- Egypt plans to develop its 8 refineries with design capacity of 38 million ton/year and its ongoing projects to expand refinery capacity to 40 million ton and improve efficiency. Accelerating progress in Egypt's downstream industry
- Algeria has attracted 49 offers from international energy companies to build four refineries worth a total of USD 6 billion. How is Algeria reinvigorating its downstream industry? What reforms and growth strategies have been put in place?
- Increasing Libya's refining capacity, improving facilities and embracing digitalisation strategies: will Libya follow its neighbouring countries and expand, modernise and diversify its refining capacity?

Gas & LNG buyers & sellers meet...increasing regional cooperation and security of supply

Al Manara Conference Hall C



Eng Osama El Bakly
CEO
Egyptian Natural Gas
Holding Company (EGAS)



John B. Habumugisha
General Manager
National Pipeline
Company (U) Ltd

- With the Mediterranean becoming a key gas hub, many gas and LNG projects are on the horizon disrupting trends and increasing global competition. What markets are easily accessible for exports from the region? What final investment decisions are we expecting? What are the timelines for these projects to come online?
- What trading routes and pricing mechanisms will be evaluated? Assessing further cooperation agreements for a strong and secure supply of gas and LNG globally
- Redefining the rules of the game and managing today's supply expectations: understanding buyers needs and securing contract flexibility

Re-energising Egypt: the roadmap to become a leading regional Energy Hub

Al Manara Conference Hall C



Dr Magdy Galal
Vice Chairman for Operations
and National Gas Grids
Egyptian Natural Gas
Holding Company (EGAS)



Nicolas Katcharov
Vice President
North Africa and
Middle East Operations
Edison International

- Reviewing Egypt's milestones and achievements to date: gas projects, contractual frameworks and infrastructure updates
- The real meaning of Egypt as a leading regional energy hub: creating trading routes that can enable free flow of oil and gas assets and enable a sustainable global security of supply; accessing Egypt's internal, political and technical tracks to success
- Bridging the gap and connecting the East with the West: leveraging Egypt's strategic location to spur international maritime trade, fully utilising the Suez Canal and SUMED
- Tackling cooperation, dialogue and intergovernmental collaboration: leveraging the convening power of nations to support Egypt's strategies and pursuit of becoming a leading global energy supplier
- Delivering benefit, fostering development: reinforcing Egypt's leading role both regionally and globally, attracting more investment and creating job opportunities

EGYPT AS A CORE COUNTRY IN KUWAIT ENERGY'S PORTFOLIO: AN INTERVIEW WITH ENG. KAMEL EL SAWI, PRESIDENT AT KUWAIT ENERGY EGYPT

PLATINUM SPONSOR



HOW DOES THE ACQUISITION AGREEMENT WITH CHINA'S UNITED ENERGY GROUP BENEFIT KUWAIT ENERGY'S STAKEHOLDERS IN EGYPT?

UEG is a Hong Kong based leading independent exploration and production (E&P) company listed on the main board of the Hong Kong Stock Exchange and has a market cap of \$5.12 billion as at the close of the Hong Kong stock market on 21 September 2018. Through UEG's strong financial and technical capabilities, this transaction will provide the necessary financial resources to accelerate the development of the asset base. UEG's future stewardship of Kuwait Energy (KE)'s portfolio will generate substantial benefits for stakeholders in Egypt, Iraq and Yemen and in particular within the local communities in which the company operates.

COULD YOU TELL US ABOUT KUWAIT ENERGY'S CURRENT OPERATIONS IN EGYPT?

Kuwait Energy has four assets in Egypt namely; East Ras Qattara (ERQ), Burj El Arab (BEA), Abu Sennan, and Area A. We continue to invest in drilling development and exploration wells in all its assets to increase, or at a minimum maintain production and enhance reserves to support Egypt's economy. Even during the local turmoil in 2011, KE didn't halt its operations despite the turbulent times. Over 55% of KE's overall production stems from Egypt. We remain keen to increase our production where possible by carrying out an intensive work-over program and drilling new wells.

East Ras Qattara

Recently, with the support of the Egyptian General Petroleum Corporation (EGPC) and the Ministry of Petroleum, we have successfully obtained the necessary military permits in ERQ, which allowed us to resume drilling and increase the production rate in the asset, which currently stands at approximately 15,000 barrels of oil per day (bo/d), which is subject to increase with the current and planned drilling operations. Also, we still work to appraise the Jurassic discovery that was discovered late 2016. This was a result of drilling the Shahd-4 well, which tested at 2,400 barrels of condensate and 20 mmscf of gas per day. This Jurassic discovery reinforces the value of our existence in Egypt by positioning the company as an oil and gas producer.

Area A

As for Area A, we successfully managed to boost the production of this mature field from 1,200 bo/d at the commencement of our operations

in 2008 to approximately 7,500 bo/d today. The company also succeeded in keeping the production level of Area A above 6,500 for more than 9 years, which positioned us at a leading role for being a pioneer in the management of mature fields.

Abu Sennan

Abu Sennan, on the other hand, is producing approximately 3,800 boe/d; a rate that is subject to increase following the planned drilling activities in 2019. We are also hopeful that the recent ministerial approval obtained to extend the exploration license for additional 5 years will be critical to unlock the full potential of the Abu Sennan asset. Additionally, the company has introduced a great example of utilising EGPC idle resources in the Qarun JV company by mobilising and recommissioning a 20 year-old-gas plant at Abu Sennan that handles up to 34 mmscf.

Burj El Arab

Lastly, BEA is currently producing approximately 1,300 bo/d. Our ability to boost BEA's production from 130 bo/d at the start of our operations to over 2,000 bo/d was one of the greatest milestones we have achieved in Egypt.

HOW DOES EGYPT COMPARE TO OTHER COUNTRIES WHERE KUWAIT ENERGY OPERATES?

For me, the Egyptian oil sector is one of the oldest oil sectors around the world; it is very mature and transparent. In Egypt, the PSA gives you good margin per barrel compared to the service agreements of the other countries where we operate. The extraction costs in Egypt are fairly low compared to other countries, where the logistics and the infrastructure are readily available, while, for sure, the economic and political stability is a major difference.

WHAT IS YOUR MESSAGE FOR NEW INVESTORS TO SUCCEED IN EGYPT?

Being one of the five countries that dominate Africa's upstream oil production, Egypt has a strategic point of interest in world energy markets. With 3.5 billion barrels of total proven oil reserves and approximately 80 trillion cubic feet of proven natural gas reserves as of 31 December 2018—according to the recent releases, you can feel the great opportunity of investing in Egypt. The government is showing a great commitment towards the serious investors. By having a serious strategy for investment, you will see that investing in the Egyptian oil sector is very rewarding.



“ IN EGYPT, THE PSA GIVES YOU GOOD MARGIN PER BARREL COMPARED TO THE SERVICE AGREEMENTS OF THE OTHER COUNTRIES WHERE WE OPERATE. ”

WHY IS THE EGYPT PETROLEUM SHOW AN IMPORTANT EVENT FOR KUWAIT ENERGY?

KE is participating in EGYPS for the third year as an exhibitor and a sponsor, in support of Egypt's efforts to create grounds in North Africa, for an industry that consists of major players both regionally and globally.

EGYPS is gathering the key industry players, and our participation aims to reinforce the promotions of investment opportunities in Egypt's petroleum industry and all its related activities to government representatives, key project owners, NOCs, IOCs, international service providers, EPC contractors, consultants and financiers who are attending this year's edition of the exhibition. Also, it gives us the chance to show our commitment toward Egypt as a core country in our portfolio.



11-13 February 2019

Egypt International Exhibition Center

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TECHNICAL SESSIONS IN FOCUS

Having received over 700 abstracts from across the globe, the EGYPS 2019 Technical Conference will deliver 33 sessions across 11 technical categories, over 3 days at the Egypt International Exhibition Center.

The first day of the Technical Conference presents discussions within three different technical categories: Exploration and Production (E&P) Geoscience; Project Management, Engineering Technology and Implementation (PMETI); and Artificial Intelligence and Connected Performance Technology and Services (AICPTS).

Technical Conference Chairman

“Returning to Cairo in February 2019, EGYPS continues to grow, becoming the largest and most influential Show not only in Egypt but also North Africa and the Mediterranean. We welcome and encourage technical experts from all sectors of the oil and gas value chain to join us and showcase their latest research, methodologies, solutions and technology, fostering synergy and cooperation across the oil and gas industry.”



Nabil Salah Gaber
Deputy CEO for Production
Egyptian General Petroleum Corporation (EGPC)

AGENDA

MONDAY
11 FEBRUARY 2019

SESSION	SESSION TITLE	TIME	LOCATION
Session 1	Geoscience – new approaches	14:00 - 15:30	Room 1, Plaza
Session 2	Execution of offshore projects	14:00 - 15:30	Room 2, Plaza
Session 3	The Artificial Intelligence & machine learning era of oil and gas	14:00 - 15:30	Room 3, Plaza
Session 4	New promising exploration plays	15:30 - 17:00	Room 1, Plaza
Session 5	Successful project implementation solutions	15:30 - 17:00	Room 2, Plaza
Session 6	Ensuring oil and gas safety, cyber security and operational excellence	15:30 - 17:00	Room 3, Plaza
Session 7	Unlocking potential of mature basins	17:00 - 18:30	Room 1, Plaza
Session 8	Mitigating project execution challenges	17:00 - 18:30	Room 2, Plaza
Session 9	Smart digital oil and gas solutions	17:00 - 18:30	Room 3, Plaza

2019 TECHNICAL POSTER COMPETITION

NEW FOR 2019

New for this year is a Technical Papers' Poster Display that will be located on the exhibition floor (Hall 1) during all three days of the EGYPS 2019. Showcasing the latest research findings and technology, the Poster Display will be a fantastic educational and networking opportunity that is also free to attend to all exhibition visitors.

On Day 2, Tuesday 12 February from 14:30 until 16:30, there will be the **Best Poster Selection** taking place, when all the posters will be evaluated by the Technical Committee Jury according to the following criteria:

- Content and quality of research.** Is scientific information provided of good quality? Is there sufficient explanation? Is the content suitable for experts and non-experts alike?
- Relevance and interest.** How relevant is the presented information to the industry? How interesting is the content?
- Visual appeal.** Is the poster appealing to the eye and inviting to read?

The highest scored poster will receive an Award Certificate that will be presented to the author during the show.

JOIN US IN HALL 1 TO VIEW THE TECHNICAL POSTER SESSIONS AND CELEBRATE THE BEST POSTER AWARD

COMPLETE YOUR CONFERENCE REGISTRATION IN HALL 2

To attend the Technical Conference sessions



Proserv. is one of the leading petroleum services companies...

Professionally, maintaining joint efforts and various facilities for oil and natural gas companies...

Striving to offer premium quality through out distinguished services!



UPSTREAM



MIDSTREAM



DOWNSTREAM



LOGISTICS



HEAD OFFICE - CAIRO

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DIGITALISATION IS THE KEY:

AN INTERVIEW WITH HOSSAM ABUSEIF, GENERAL MANAGER EGYPT, SUDAN & SOUTH SUDAN AT BAKER HUGHES, A GE COMPANY

BHGE IS SPONSORING THE NEW DIGITALISATION ZONE. IN YOUR OPINION, WHY IS IT IMPORTANT TO FOCUS ON DIGITALISATION, AND WHAT ROLE DOES IT PLAY IN THE DEVELOPMENT OF THE SECTOR?

At Baker Hughes, a GE company (BHGE), we believe digital is the way forward, as digitising the sector can guarantee its sustainability. With topnotch technological innovations, we can help increase the efficiency and productivity of Egypt's oil and gas industry. As the Modernisation Project aims to transform the industry over the coming five years, we believe technology is an integral player to helping achieve these goals. We are keen to keep an eye on digitalisation and seize the opportunities that can drive the development of sector.

AS A SPONSOR OF THE STEM STAR OF THE YEAR AWARD, WHAT DO YOU BELIEVE TO BE A GREAT ASSET FOR FEMALE SUCCESS AND EMPOWERMENT IN THE OIL AND GAS INDUSTRY?

BHGE is constantly working on attracting and developing female talents and increasing diversity in the workplace. We create equal opportunities for females in technical and leadership roles. Our vision is to create a workplace without bias. We have several programs that empower females to excel their set of skills. For STEM in particular, we invest in training our female engineers by encouraging them to join Rotational Leadership Development Programs (RLDP) that helps them gain rounded engineering experiences. They also spend so much time in BHGE's Training Facility in Dubai to have hands-on practical training. We also send our female engineers for training in the United States to give them the opportunity to work on international assignments, learn best practices, and bring them back to their home countries. In addition, we also form strategic partnerships with universities and other organisations to attract more women to BHGE's RLDPs in an effort to educate them about the oil and gas industry and grant them internship opportunities. We have great examples from Egypt, as the first female Fishing Engineer from BHGE globally was Egyptian. Additionally, one of our female field engineers in the Wellbore Intervention (WBI) team is supporting the supergiant offshore Zohr gas field in Egypt and has also worked in fields in the North Sea.

Sponsoring the STEM Star Award reflects our strong belief that having successful and empowered females as part of Egypt's oil and

gas sector is an asset to the industry. Our aim is to showcase the right model for young skilled females who can play a role in developing the sector. We're passionate about driving diversity as well as promoting female university and college students to participate in the oil and gas field.

WHAT ELEMENTS OF THE EGYPTIAN OIL AND GAS SECTOR MAKE BHGE'S HISTORY IN THE COUNTRY SUCCESSFUL?

We've been operating in Egypt for more than 110 years and we're proud of every moment we've had ever since. We started our journey by drilling the first well in the Mediterranean in 1909 using Christensen-Hughes drill bits and installing our first gas turbine in 1983. Since then, every project we've worked on has contributed to our success in the country. During 2016 and 2017, the BHGE logging-while-drilling (LWD) technology was used to drill wells in phase one of the Zohr gas field. BHGE was awarded a major contract in 2017 for the engineering, fabrication, and construction of a subsea production systems that also serve the Zohr gas field. Today, we're proud to say that our oil field equipment has started arriving in the country to support the second phase of this mega project which will guarantee Egypt's sustainability for the years to come. Our key achievements in the country is developing local talents as some of our Egyptian employees are currently taking leading roles globally, serving the industry on a larger scale. On a more holistic level, the unprecedented growth we're seeing in the sector today and its appetite to transform into an oil and gas hub makes it the right market for investment. Additionally, Egypt's mix of natural resources and talented human capital create an optimal environment for success.

HOW DOES BHGE PLAN TO EXPAND ITS ACTIVITIES IN EGYPT?

As I said, Egypt is a key market for BHGE and one where we've had presence for many years. We're always on the lookout for new opportunities to create the right partnerships to drive the sector's growth and to bring our latest technologies and solutions to the country. Guided by the vision and goals of Egypt's Modernisation Project, we see a lot of potential in the market. The current economic stability coupled with the positive initiatives led by the Ministry of Petroleum and Mineral Resources are encouraging us to increase our investment in the country to build the right infrastructure and human capital to cope with the recent demands. We're seeing a lot of growth in Egypt's gas market and we're keen to continue playing a role in that area. Additionally,

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driving localisation is a strategic factor in building the right ecosystem and supply chain to support the needs of the sector. We're exploring other ways to drive the digitalisation of the Egyptian oil and gas sector forward to boost its efficiency and productivity. These are some of our key focus areas in Egypt.

HOW IMPORTANT IS THE EGYPT PETROLEUM SHOW TO THE INDUSTRY AS AN ANNUAL MEETING PLACE?

Year after year, the Egypt Petroleum Show is positioning itself as a leading industry platform, not just in Egypt but in the whole region. We're seeing a lot of traction and participation from NOCs, IOCs, operators, and service companies; among others. We're proud to be part of such a prominent show and we are always keen to attend with our senior leadership. It is a great opportunity to network with industry leaders and showcase BHGE's latest technological innovations that can support Egypt's oil and gas industry.

“THE CURRENT ECONOMIC STABILITY COUPLED WITH THE POSITIVE INITIATIVES LED BY THE MINISTRY ARE ENCOURAGING US TO INCREASE OUR INVESTMENT IN THE COUNTRY TO BUILD THE RIGHT INFRASTRUCTURE AND HUMAN CAPITAL TO COPE WITH THE RECENT DEMANDS.”

VISIT US AT EGYPS 2019
STAND 2138 HALL 2



STEPPING UP GROWTH WITH ENERGY



TransGlobe Energy
CORPORATION

CARBON HOLDINGS: COMMITTED TO EGYPT'S PETROCHEMICAL SECTOR: AN INTERVIEW WITH BASIL EL-BAZ, CARBON HOLDINGS' CHAIRMAN AND CEO

SILVER SPONSOR



COULD YOU TELL US ABOUT THE TAHRIR PETROCHEMICAL COMPLEX AND CARBON HOLDING'S PARTICIPATION IN THE PROJECT?

The Tahrir Petrochemical Complex (TPC) will be the latest Carbon Holdings' project. We currently operate two complexes in the Suez Economic Zone (SEZ) – Egyptian Hydrocarbon Corporation and Oriental Petrochemicals Corporation, which produce petrochemicals for the global market.

In July 2018, Carbon Holdings announced the \$11 billion launch of TPC and was expected to be the world's largest single-train naphtha cracker producing polyolefins. Situated in the SEZ in Egypt, TPC will produce high-quality chemicals that will be used in a broad range of consumer products. Once operational, the project is expected to double Egypt's total exports and directly drive employment regionally and globally.

All our operations are in the Suez Economic Zone, a strategically ideal location as it offers excellent transport links to the rest of the world. We see TPC as being at the heart of Egypt's growth story, as the region becomes a key petrochemical and manufacturing centre for Africa.

HOW DO YOU SEE THE FUTURE OF THE PETROCHEMICAL SECTOR IN EGYPT?

Egypt is emerging as an industrial and export powerhouse, supported by international investment in the petrochemical sector. This is expected to increase as investors seek to exploit the huge potential it offers. Furthermore, the Egyptian government is committing major capital to develop Egypt's local manufacturing capabilities.

Development of the Suez Economic Zone has already created a strategic transportation hub for the industry, which gives access to the global shipping routes without going through the costly Suez Canal.

Moreover, global demand is rising for high-quality chemical products and we have the infrastructure, innovation and expertise to meet this demand. In particular, Egypt's petrochemical sector is poised to take advantage of the region's oil and gas feedstock for downstream petrochemical products to meet Africa's growing demand.

Egypt has the capacity to grow its petrochemical offering through the construction of more plants offering a broader range of products. In addition, as international companies become aware of the cost efficiencies that Egypt's strategic position offers, demand will increase.

WHAT ARE THE KEY ELEMENTS TO IMPROVE OPPORTUNITIES IN THE PETROCHEMICAL SECTOR?

Investment is critical for the growth of any company but particularly in a region that is growing as fast as Egypt. The government and local companies are looking more and more to the international market for investment to ensure that projects have the best infrastructure, technology and innovative products to address the global market opportunities.

Egypt is well located, and industry leaders recognise the potential of the Suez Economic Zone given its proximity to transport around the world. We will continue to leverage Egypt's location by launching more petrochemical projects.

People are at the heart of the petrochemical sector and the development and investment in training, health, safety, and leadership is crucial to its progress. Egypt already has the expertise to produce high-quality chemicals but with a country of almost 100 million people, Egypt can help educate the next generation of experts.

Another area of opportunity is that more and more buyers of raw materials are looking to a single producer for a range of products. It will be the organisations that can adapt to this trend and look to offer an increasing range of products that will be successful.

Perhaps most importantly, producers need to act as global citizens as they have a duty to both the environment and society. By constantly investing in the latest petrochemical production techniques, we can offer industry-leading, environmentally-friendly products.

HOW WOULD YOU DESCRIBE THE INVESTMENT CLIMATE IN EGYPT?

Since the new government was elected in 2014, Egypt has become one of the most attractive emerging markets. The IMF has stated that it is encouraged by the country's ongoing economic reform programme and that the growth rate is among the highest in the region with unemployment falling. The Bloomberg Barclays index ranked Egypt as having the second most attractive yield in emerging markets, after Argentina.

International business is returning, attracted by Egypt's large young population and intellectual resource. An example of this is Mercedes Benz announcing its return to Egypt which bodes well for investment prospects and financial opportunities.

Continued development in the industry and



manufacturing sectors will provide opportunities for international investment. This will lead to a rise in employment, boost the Egyptian economy and act as a springboard for other African markets.

WHAT DOES THE EGYPT PETROLEUM SHOW REPRESENT TO CARBON HOLDINGS?

The Egypt Petroleum Show brings together a broad range of industry experts from Egypt and North Africa to discuss developments and opportunities in the North African oil and gas sector as well as identifying the strategic opportunities in the Mediterranean and Egypt. Carbon Holdings is proud to be part of this prestigious event, in which we can join the conversation about the future of the industry and showcase our community achievements, innovation and vision.

“PEOPLE ARE AT THE HEART OF THE PETROCHEMICAL SECTOR AND THE DEVELOPMENT AND INVESTMENT IN TRAINING, HEALTH, SAFETY, AND LEADERSHIP IS CRUCIAL TO ITS PROGRESS.”



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15 TECHNICAL CATEGORIES	Exploration: Reservoir Characterisation (EXPL)	Geoscience: Technology Developments (GEOT)	Unconventional Oil and Gas Resources Development (URD)
	Oil and Gas Field Development (FD)	Drilling (DR)	Onshore and Offshore Fluids Processing and Transportation; Gas Processing, Operations and Technology (GAS)
	Offshore and Marine Technology and Operations (MAR)	Project Management and Execution (PM)	Health, Safety and Environment (HSE)
	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)

DON'T MISS THE OPPORTUNITY TO SPEAK AT NORTH AFRICA & THE MEDITERRANEAN'S LEADING OIL AND GAS TECHNICAL CONFERENCE

Deadline for abstract submissions
Thursday 27 June 2019

EGYPS 2019 TECHNICAL CONFERENCE AT A GLANCE

710 ABSTRACTS RECEIVED	84 COMMITTEE MEMBERS	33 TECHNICAL SESSIONS	32 TECHNICAL POSTERS	ACROSS 11 CATEGORIES	132 TECHNICAL SPEAKERS	FROM 45 COUNTRIES
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DON'T MISS TOMORROW'S SESSIONS

STRATEGIC SESSIONS

10:00 - 11:00

Al Manara Cinema Hall

LEADERSHIP PANEL... shifting global dynamics and connecting the energy dots: from production, consumption and industry growth



Ali Al Jarwan
CEO
Dragon Oil



Nick Boyle
CEO
Lightsource BP



Maria Moraeus Hanssen
CEO
DEA Deutsche Erdoel AG



MODERATOR
Eithne Treanor
Presenter
EGYPS 2019 & CEO
E Treanor Media

11:00 - 12:00

LEADERSHIP PANEL... building legacies, creating history: the successful alliance of North Africa and the Mediterranean countries to boost production and achieve mutual goals

LEAD SPONSOR: noble energy



Mathios Rigas
CEO
Energean



Grady Ables
Senior Region
Vice President
Apache



Keith Elliott
Senior Vice President
Offshore
Noble Energy



Mahdjouba Belaifa
Head Gas Market Analysis
Department (GMAD)
Gas Exporting Countries
Forum Secretariat (GECF)

MODERATOR



Eng. Khaled AbuBakr
Chairman
TAQA Arabia

12:00 - 13:00

LEADERSHIP PANEL... redefining the gas and LNG playing field: the role of the Mediterranean in becoming a gas hub and the next natural gas hotspot



Dr Patrick Allman Ward
CEO
Dana Gas



Stefano Cao
CEO
Saipem



Dr Symeon Kassianides
Executive Chairman
Natural Gas Public
Company (DEFA) Cyprus



Dato' Abu Fitri Bin Abdul Jalil
Chief Executive Officer
PETRONAS Egypt Operations

MODERATOR



Charles Ellinas
Features Editor
Natural Gas World

14:30 - 15:30

LEADERSHIP PANEL... digitising the future – adopting disruptive innovations and paving the way for a connected, data driven world



Jean Cahuzac
Chief Executive Officer
Subsea 7



Gavin Rennick
President, Software
Integrated Solutions
Schlumberger

MODERATOR



David L. Phillips
Chairman of the Board
Bilateral US-Arab
Chamber of Commerce

15:30 - 16:30

EGYPS 2019 CLOSING REMARKS... the bridge between East and West: building foundations for a sustainable future energy mix



His Excellency Tarek El Molla
Minister of Petroleum and Mineral Resources
Arab Republic of Egypt

MODERATOR



Eithne Treanor
Presenter
EGYPS 2019 & CEO
E Treanor Media

13:00 - 14:30 FINANCE AND INVESTMENT LUNCH BRIEFING

Lunch briefing gathering government representatives, NOCs, IOCs, local operators, local and international banks and private equity firms

Al Manara Conference Hall C

LEAD SPONSOR:



Ministerial Opening Keynote: Egypt's continuous efforts in developing finance and investment opportunities that create economic growth

Unlocking project finance and creating investment opportunities in the global oil and gas industry



Basil El-Baz
Chairman & Chief
Executive Officer
Carbon Holdings



Alan Haywood
CEO Global Energy
Trading
BP



Tameer Nasser
Chief Financial Officer -
North Africa
Baker Hughes, a GE
company



Manav Futnani
Regional Head of Export
and Specialist Finance
MENAT
HSBC

The role of M&As, JVs and IPOs in supporting the oil and gas industry quest for development and market penetration



Inderpal Singh
Senior Vice President
Mergers & Acquisitions
Mubadala
Petroleum



Panos Benos
Chief Financial Officer
Energean



Artyom Sitnikov
Senior Banker – Natural
Resources Team
European Bank for
Reconstruction and
Development (EBRD)



Alan Taylor
Partner
White & Case LLP

TECHNICAL CONFERENCE

TECHNICAL CATEGORIES COVERED ON DAY 2



Gas to Power
Generation Technology
and Operations (PGTO)



Offshore Technology
and Operations
(OTO)



Downstream: Refining
Technology, Operations
and Marketing (DRTOM)



Oil, Gas and
Unconventional Field
Developments (OGUFD)



Downstream:
Petrochemicals
Technology, Operations
(DPTO)



Artificial Intelligence and
Connected Performance
Technology and Services
(AICPTS)



Operational Excellence,
Maintenance and HSE
(OEMH)

TIME	ROOM 1, PLAZA	ROOM 2, PLAZA	ROOM 3, PLAZA
10:00 - 11:30	Session 10, Category: OEMH New benchmarks for operational excellence	Session 11, Category: DRTOM Refining & petrochemical integration and growth	Session 12, Category: AICPTS Improving asset performance management with digital solutions
11:30 - 13:00	Session 13, Category: OEMH Achieving HSE and operational excellence	Session 14, Category: DRTOM Refinery process enhancement	Session 15, Category: OTO Subsea and offshore operations and developments
14:00 - 15:30	Session 16, Category: OEMH Improving assets' integrity	Session 17, Category: DPTO Petrochemicals - integration, expansion and development	Session 18, Category: OTO Subsea and offshore technologies
15:30 - 17:00	Session 19, Category: OEMH Successful green solutions applications	Session 20, Category: PGTO Improving energy efficiency in the oil and gas sector	Session 21, Category: OGUFD Reservoir engineering, evaluation, monitoring and testing

EGYPS SECURITY IN ENERGY FORUM

NEW FOR 2019

Date: Tuesday 12 February 2019
Venue: Conference Room 4, Plaza



08:30 – 09:20 **Registration**

09:20 – 09:40 **Opening Remarks and Keynote Address**

09:40 – 10:30 **Panel discussion: Partnerships as a basis for employee and critical assets security**

10:30 – 11:15 **Panel discussion: Identifying the Achilles' heel of your cyber security strategy and protecting against costly cyber attacks**

11:15 – 11:30 **Coffee break and networking**

11:30 – 12:25 **Interactive roundtables**

Contingency plans, crisis management and critical emergency response
Security risk assessment and management

12:25 – 13:15 **The future of oil and gas security in Egypt, North Africa and the Mediterranean**

13:15 – 14:15 **Lunch and networking**

SCHLUMBERGER EXHIBITS WORLD-CLASS TECHNOLOGIES

At EGYPS 2019, Schlumberger will be exhibiting its unique capabilities in the oil and gas different environments in order to enable our digitalisation future roadmap, and highlight how the company has integrated the world-class technologies that work together across exploration and production activities to maximise our costumers' return on investments. As the world's leading provider of technology for reservoir characterisation, drilling, production and processing to the oil and gas industry, Schlumberger is uniquely positioned to tell this story.

Schlumberger supplies the industry with the most comprehensive range of products and services, from exploration through production, in addition to integrated pore-to-pipeline solutions for hydrocarbon recovery that optimise reservoir performance.

During EGYPS 2019, Schlumberger plans to display some of the key technologies and services for the sector. Schlumberger exploration capabilities starts from multiclient library through the unique evaluation technologies backed up by drilling precision technology like



GeoSphere®, logging and sampling with track record performance with Saturn®, capturing the lowest mobile oil ever, and latest environmentally friendly testing technologies that brings both environmental impact and efficiency together via time and efficiency through Vx Spectra®.

Development and production enhancement integrated technologies are represented in Schlumberger's integrated workover approach, combining multiple technologies, and focusing on increasing wells efficiencies. Starting from candidate selection through rigorous cased hole evaluation with open hole logging quality Pulsr®, resources management and intervention programs capitalising on unique

technologies in farcing highway® and artificial lifting.

Schlumberger Deep Water footprint in the Mediterranean, delivering fit for purpose technologies, aiming at increasing reliability and reducing cost, bringing international experience in reservoir evaluation and well construction with precision NeoSphere® combined with the best in class landing strings and industry standard subsea well heads by Cameron group.

Innovation is an essential pillar for Schlumberger's contribution to the industry. Rig of the future as an enabler for efficient drilling returns. Moreover, digital platforms contributing to the Modernisation of the oil and gas market, delivering data value in a faster manner,

and standardising production reporting nationwide through integrated platforms AVOCET®.

Schlumberger engages with the local industry stakeholders through several Memoranda of Understanding (MOUs) focusing on health, safety and environment (HSE), capability building and talent development, combining Schlumberger's continuous involvement in the development of oil and gas resources and its commitment to corporate social responsibility (CSR) participation.

To find out more about Schlumberger and its unique contribution to the oil and gas lifecycle, visit the Schlumberger booth, number 2B30.

STAND NUMBER: **2B30** HALL 2

OPEC COMPANY: PROTECTION AND STABILISATION OF SUBSEA PIPELINES

Offshore Protection Engineering Company (OPEC), a subsidiary of Hamza Brothers Group, was established in 2000 and is headquartered in Egypt, with offices located in Port Said and Cairo.

OPEC owns a 5000 m2 fabrication yard, which is located in Port Said, and specialised in designing and producing items used for the protection and stabilisation of subsea pipelines, cables and other structures and assets; such as concrete and bitumen mattresses, sleepers, bridges and covers.

OPEC offers products and services; such as free span correction, grouting services, dura/grout bags concrete and bitumen, concrete sleepers, bridges, protection covers, and lately we added repair clamps and grouted clamps to our product list.

Given that wide range of products, OPEC has developed a good reputation, supplying its products and services to main oil and gas and construction companies working in major projects in Egypt.

In order to continue this performance, OPEC has established a quality system conforming to the requirements of the International Standard Organisation (ISO 9001/2008), which has now developed to ISO 9001/2015, besides, keeping abreast to the latest training programs and providing the appropriate atmosphere in the work environment and to workers.



OPEC is certified for ISO 9001/2015, and all our products are severely tested and certified at our own facilities. OPEC has a qualified internal laboratory to test every aspect of the production. All the produced concrete will be provided with company manufacturing quality certificate upon delivery to guarantee that each item is produced under the supervision and the quality documented.

During EGYPS 2019, please find us at booth 2E59. We are planning to exhibit all our products and services mentioned above in an eye-catching presentation. Our main target is to meet up the needs of our current and potential clients to catch up and learn about all ongoing and planned activities in the market. We also look forward to meeting new potential clients who are based regionally to enable us to expand our activities internationally.

STAND NUMBER: **2E59** HALL 2

**WATCH OUT FOR
THE RAFFLE DRAW
EVERY DAY AT 16:00**



**EGYPS
STAND
3H50,
HALL 3**

**LUCKY WINNERS WILL
BE ANNOUNCED
IN THE SHOW DAILY.**

PETROCONSULT: HIGHLY ENGINEERED VALVES FOR CRITICAL APPLICATIONS

During EGYPS 2019, Petroconsult will exhibit its main services to the visitors. In marine and offshore services, Petroconsult joined forces with the leading harbor and terminal towage company "KOTUG International B.V" to establish "KOTUG PETRO MARITIME" (KPM). KPM is a private free zone company that were awarded as the biggest terminal towage contract in A.R.E by Arab Petroleum Pipelines Company "SUMED" to provide operational services and carry out towage operations, including FSRU operations at their Ain Sukhna terminal, located in the Red Sea, Egypt after providing SUMED with two newly built state of the art 80 tons, Rotortugs will carry out these operations.

In valves services, Petroconsult partnered with Crane CPE in Egypt to supply our clients in oil and gas, petrochemicals, chemicals, fertilizers and power industries with highly engineered valves for critical applications. The valves are capable of functioning under very high pressure, high temperatures and with corrosive fluids. Over the years we've provided our clients with check valves, sleeved plug valves, lined valves, process ball valves, high performance

butterfly valves, gate and globe valves, industrial diaphragm valves, lined pipe, fittings and hoses.

For pipeline services and subsea inspections, Petroconsult recorded its first milestone in the subsea department with a huge contract supplying to Rashid Petroleum Company/Burullus Gas Company (Rashpetco) with an advanced subsea pipeline screening and direct examination survey from Sonomatic Limited for their deep water non pig-able pipeline network in West Delta Deep-Marine fields in the Mediterranean Sea (1200m below sea level) and about 1,100 km in length using screening techniques (as EMAT) and direct examination techniques (as high-resolution ultrasonic testing).

For operations and maintenance, Petroconsult is representing Dietsmann Group, the leading independent operation and maintenance company for maintenance engineering and inspection for continuous-production plant in the oil and gas, conventional and nuclear power generation and mining industries. The company's reputation for excellence is the result of 40 years of accumulated know-how of plant and equipment.



In the field of metering stations and produced water treatment, Petroconsult partnered with Alderley Systems UK, which are the leading independent system integrators and technical service experts for modular packages in the oil and gas industry, to supply high accuracy hydraulic, pneumatic and electrical metering systems, which requires a comprehensive, reliable and workable control system to collect and process metering data. From simple standalone flow computers to sophisticated panels incorporating dual redundancy and the latest in supervising systems.

Petroconsult supplies the oil and gas sector with shipping pumps, high

pressure multi-stage water injection pumps, and also supplies the petroleum sector with API610 boiler feed water pumps from SPX ClydeUnion, as well as OBL's pump portfolio of API and non-API mechanical and hydraulic diaphragm pumps, positive displacement reciprocating plunger pumps came with wide range of materials to choose from to match all industries and applications and the renowned Grundfos Denmark, the world's largest pump manufacturer by number of pumps, and who recognised Petroconsult as their best performing channel partner in Egypt last year.

STAND NUMBER: 2D40 HALL 2

COMMITTED TO ENERGY EFFICIENCY

Total invests over \$1 billion a year in R&D

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Committed to Better Energy

TRANSAFRICA: EXCLUSIVE AGENT TO WORLD-CLASS MANUFACTURES

Transafrica for trading and oil field services, a stock and supply based Alexandrian FZC, believes in offering nothing but the best in light of serving the Egyptian oil and gas production sector with their premium market needs.

We offer services in all types of valves, fittings, bolting, piping bulk materials, hot formed bends, instrumentation, gaskets, flanges, wellhead control panels with valves and actuators, chemical tanks and electrical transformers and many more.

Alongside Transafrica's wide range of supply scope, the company is an exclusive agent to world class European manufacturers.

Being proud participants of this year's prestigious show with our booth No. 3C30 - hall 3, it is our pleasure to share the booth with our joint venture Emirates-based hose and fitting specialists FLEXIFLO Corporation, alongside our principal Emirates-based pigging specialists Middle East manufacture.

Middle East Manufacturer (MEM) is a world class UAE-based manufacturer specialising in producing metal bodied polyurethane disk pigs and polyurethane foam pigs. MEM also provides several pig related accessories; such as steel brushes, aluminum gauge plates, high force magnets, pig tracking tools, transmitter housings and many more.

FLEXIFLO Corporation, the one stop hose and fitting specialists for flexible hose assemblies, terminal loading arms, tanker truck equipment and hose fittings deeply appreciates offering the Egyptian

market needs with their genuine all time and type solutions of a wide range of hoses and fittings supply scope.

Being an exclusive agent to parker hoses industry and many more, FLEXIFLO proudly participates in this exquisite show, alongside their sister manufacturers for an unforgettable experience of DANTEC, the British world leader in composite hose industry, and MANNTEK, the Swedish -based all type hose coupling manufacturers and specialists. The company showcases its experience in DUNLOP - the Argentinian monogrammed and API certified manufacturer of rotary, vibrator as well as choke and kill hoses genuine manufacturers.

FLEXIFLO provides experience in MANDALS, the Norwegian world class layflat hoses manufacturer.

It is our extreme delight to invite you to share this quality experience with us in booth 3C30 - hall three for this prestigious event, we are looking forward to seeing you there.



STAND NUMBER: **3C30** HALL 3

BUREAU VERITAS: TESTING, INSPECTION AND CERTIFICATION SERVICES

Bureau Veritas, founded in 1828, is a global leader in testing, inspection and certification services. The company has been present in Egypt since the 1970s, with having more than 120 employees and serving more than a thousand customers.

As a key player in the Egyptian oil and gas sector, we have been appointed as offshore platform and pipeline certifying authority and marine warranty survey by PICO International Petroleum Services (PIPS) for platforms amal B and C, and by the General Petroleum Company (GPC) for their platforms NAO and HH.

We offer services in several activities including training and awareness courses; manufacturing surveillance in drill strings, specialty tools and rental tools; field quality assurance of drilling and handling tools; rig operations audit on running, handling, best practices; casing running surveillance and quality assurance; bottom hole assembly design; torque and drag analysis; drill string design, load capacity verification; failure analysis; as well as fatigue analysis and inspection scheduling.

Our services further support the fields of reactive torque analysis; landing string design and analysis; heavy and ultra-heavy casing and liner landing operations; mechanical design review and load capacity verification of tools/optimisation; process safety and risk management; bow-tie analysis and HSE critical equipment and systems; safety integrity level (SIL) identification and verification; reliability, availability and maintainability (RAM); emergency



response plan and crises management; as well as gas dispersion and explosion modeling using 3D computational fluid dynamics (CFD).

Bureau Veritas serves the fields of fire and gas detection mapping (2D/3D); building risk assessment (BRA); evacuation, escape and rescue analysis (EERA); preparation of COMAH / HSE case study; full environmental services; fugitive emission monitoring; oil and gas testing and analysis services; oil and gas cargo inspection services; certification of personnel and conformity of installations; and supplier technical audit.

The company offers services in the fields of third party shop inspection and site inspection; non-destructive testing; design review; asset integrity management; risk based inspection; structural integrity assessment and verification; fitness for service and remaining life assessment; non-intrusive inspection (NII); corrosion management plans (CMP) and corrosion risk assessment (CRAS); root cause analysis; boiler integrity management; and vibration analysis

STAND NUMBER: **2F71** HALL 2

DOF – YOUR PARTNER IN OFFSHORE OPERATIONS

Between the years of 2003 and 2006, DOF had the honour of being part of the 1st consortium providing intervention and health care services for Egyptian Deep Water assets, through a contract with Burullus, at the time.

The latest great gas discoveries in Egyptian deep waters, specifically in the Mediterranean, followed by an impressive fast track in subsea construction to start production, as well as the expected near future for exploration in the Red Sea, will put Egypt in the front line as the primary Gas hub of the region.

The aforementioned is complimented by the prolific relations between Norway and Egypt. DOF management firmly believes that DOF can be the deep water marine and subsea partner for the Egyptian offshore market.

As a sign of DOF's commitment to establish long lasting business and partner relationships in Egypt, DOF has

established the "DOF Management Egypt Branch" company in the Free Zone area of Alexandria. DOF is also in the process of setting up a second branch in the Free Zone area under the name of "DOF Deep Water Egypt Branch".

DOF Group has over 35 years of experience in the offshore business. With a multi-national workforce of almost 4,000 personnel. DOF A.S.A. is an international group of companies that owns and operates a fleet of modern offshore, subsea vessels. With an engineering capacity to service both the offshore and the subsea market, the group has a strong position in terms of experience, innovation, product range, technology and capacity.

DOF's core businesses are vessel ownership, vessel management, project management, engineering, vessel operations, survey, remote intervention and diving operations primarily for the oil and gas sector.

From PSV charter to subsea engineering, DOF offers a full spectrum of top quality offshore services to facilitate an ever-growing and demanding industry.

The company's main operation centers and business units are located in Norway (main office), Angola, Argentina, Australia, Brazil, Egypt and Singapore.

With an extensive global fleet, DOF Subsea provides integrated offshore solutions to the world's oil and gas industry, including:

- Subsea Construction
- IMR / Field Support
- FPSO Mooring Installation & Hook-Up
- Survey

Delivering reduced project risk, increased efficiency and improved safety performance.

www.dofsubsea.com

STAND NUMBER: **2G30** HALL 2



ITALIAN TECHNOLOGIES FOR OIL & GAS



EGYPS 2019

VISIT US AT STAND **2H59 HALL2**

PULLMAN: PROVIDING SOLUTIONS THROUGH ELECTRO MACHINE INSTALLATION EQUIPMENT

Pullman Electric is specialised in supplying equipment of electro mechanic installations represented in analogue and digital panel meter, multifunction meter, current transformers, transducers, testers, power supply, time switch, time relay, protection relay, signaling devices, wiring terminal and connectors, terminal blocks, cable lugs, UV nylon and stainless steel cable tie, manual and hydraulic crimping tools, cutting tools, 3M electrical equipment, scotch and termination (resin and cold shrink).

The company mechanic installation could be found in marking solutions through identification, sign safety and pipe marking through label printers and its consumables for any industrial area and installation equipment, lockout – tagout. Pullman presents environmental equipment; such as oil spill, sorbents, skimmers, washing machine and trajectory model for tracking oil spills.

STAND NUMBER: 3F70 HALL 3

GT: PUTTING HIGH STANDARDS INTO PRACTICE



Geofizyka Toruń S.A. (GT) has been providing integrated geophysical services to the oil and gas exploration industry worldwide since 1966. Decades of operational know-how resulted in a safety culture that ensures a healthy workplace, respect for local communities and limited impact on the natural environment. GT's quality, health, safety and environment (QHSE) management system, based on OGP/IAGC guidelines, translates our principles into operational policies and is certified according to the international standards of ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007. Everyday's performance under challenging conditions proves that GT's recognition among the oil major companies, such as ExxonMobil, Chevron and Shell is well deserved.

Integrated Geophysical Services

GT offers a broad spectrum of geophysical services, focusing on prospecting conventional and unconventional hydrocarbon deposits, geothermal energy reservoirs and underground storages. We deliver cost-effective and tailored solutions that can overcome current exploration challenges. In terms of seismic

campaigns, we assist our clients from early stages of survey design and pre-planning up until in-field QC. Further, with our advanced processing and imaging tools, we are able to visualise various plays accurately and reduce exploration risks.

The company's scope of services includes seismic data acquisition; seismic data processing and interpretation; as well as well logging and well log analysis

Experience in Egypt and Beyond

Our seismic crews have extensive recorded-track in various demanding environments; such as North African deserts, transition zones of South-East Asia, agricultural fields in South America and urban areas across Europe. At the same time, our processing center has been processing seismic data from Agadir to Ahmedabad and beyond. We have been established in Egypt since 2010, when we reprocessed archive data from the Bahariya Block for PGNiG. Since then, we have successfully completed several seismic campaigns in the Western Desert and the Nile Delta for GSPC, Edison and SDX Energy, contributing to gas discoveries at the South Disouq concession.

STAND NUMBER: 3G75 HALL 3

PAN MARINE: A ONE-STOP SERVICE PROVIDER



Pan Marine group is a ONE-STOP service provider to our clients in Egypt, through four companies, Pan Marine Shipping Services, Pan Marine Logistics Services, Pan Marine Petroleum Services FZ. And Medkon Lines Egypt S.A.E.

Our customers are our greatest asset; we aim to provide them with a one-stop service in the most economical way through understanding their needs, solving their problems, and being a supportive consultant. Pan Marine strives to create valued business relationships all over the world. Our duty and target is to meet and exceed our clients' expectations and achieve mutual success by maintaining a high level of environmental management, safety, and quality in all our activities.

Vroon Offshore Services (VOS) is a leading maritime offshore-services supplier. Vroon has been active in this business since 1964. VOS is an

international operator, with a strong geographical presence in the Northern Europe, the Mediterranean, North Africa, the Indian Ocean and Asian regions. The company has offices in Aberdeen, Den Helder, Genoa and Singapore. VOS also operates in Mozambique, Malaysia and Thailand, with business activities coordinated from the Den Helder and Singapore offices.

VOS excels in the provision of diverse services and solutions for key offshore-support needs, including platform supply, emergency response and rescue, anchor handling tug supply, walk to work, crew transfer and subsea support. In addition, VOS offers a wide range of complementary offshore services.

With our versatile fleet and highly qualified and experienced colleagues, we are committed to providing safe, reliable and cost-effective services.

STAND NUMBER: 2D68 HALL 2

ADES: COMMITTED TO HIGH-PERFORMANCE DRILLING

ADES Group is specialised in providing onshore and offshore contract drilling workover services through a fleet of 14 offshore jack-up rigs, 26 onshore rigs, and a team of experienced and highly-skilled employees. In addition, ADES provides mobile offshore production unit (MOPU) services, including offering clients shorter lead times, accelerated production and maximised flexibility with phased-in field development. Moreover, the group provides jack-up barge and project services through a wide range of marine tasks and offshore support services, including offshore accommodation, as well as equipment and construction support.

ADES Group key core competitive strengths lie in its responsiveness, lean cost structure, highly qualified crew and an unwavering commitment to performance and client satisfaction.



STAND NUMBER: 2E48 HALL 2

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As the industry continues to shift towards downstream diversification and expansion into higher value and niche markets, integration across the industry's value chain plays a significant role. In line with industry developments, ADIPEC 2019 delivers enhanced downstream technical content with more sessions across more categories.

10 DOWNSTREAM TECHNICAL CATEGORIES

1 Refining Technology, Operations and Marketing (RTOM)



2 Petrochemicals Technology, Operations (PTO)



NEW
3 Artificial Intelligence and Connected Performance Technology and Services - Petrochemical Plants (DTSP)



NEW
4 Artificial Intelligence and Connected Performance Technology and Services - Refineries (DTSR)



5 Gas Processing and Hydrogen Technology and Operations (GPHTO)



6 Project Management, Engineering Technology and Implementation (PMETI)



7 Operational Excellence, Maintenance and HSE (OEMH)



8 Energy Efficiency and Energy Management (EEEM)



NEW
9 Circular Economy and the Future of the Downstream Industry (CEFDI)



NEW
10 The Role of Operators and the IMO Legislation: Looking Into the Future (ROIL)



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FUGRO: OFFERING TAILORED SURVEYS, INTELLIGENCE AND SOLUTIONS



Fugro is the world's largest integrator of survey, subsea, geotechnical and geosciences services. It provides people, equipment, expertise and technology to support the exploration, development, production and transportation of the world's natural resources. Our services support our clients with data, intelligence and solutions that are essential for the design, construction, installation, operation and eventual decommissioning of their large marine and land infrastructure, industrial installations and buildings.

Fugro has supported Egypt's oil and gas exploration and development activities for over 30 years, recently introducing a new offshore survey vessel, the "Kobi Ruegg", which is equipped with the latest technology to carry out a wide range of survey activities, in water depths from 10 metres to thousands of metres.

Fugro has also recently added onshore geotechnical capabilities to our services in Egypt, investing in drilling and CPT equipment and a certified geotechnical laboratory testing facility for soil and rock classification, deformation and strength testing. Recent projects include site investigations for the central business district of the New Administrative Capital.

Other specialised services we provide include precise-positioning, ROVs, subsea intervention and tooling, AUV surveys, oceanographic measurements and weather forecasting. We offer our services in combination in order to help our clients achieve the optimum results. Our local services are supported by a global knowledge base and resource pool of experienced personnel.

Since the start of 2019, Fugro's operations in Egypt are now being managed and supported from brand new purpose-built premises located in Zahraa El Maadi, which will allow us to deliver our services to the Egyptian market more efficiently.

Fugro is committed to continuing to support Egypt's development of its natural resources through providing high quality services, offering the right service on time, using trained and experienced personnel, and deploying new technology and equipment, while maintaining a safe and healthy workplace and protecting the environment, in accordance with Egypt's applicable laws and our HSE policies.

STAND NUMBER: **3E31** HALL 3

CATEC: 40 YEARS OF ENGINEERING SOLUTIONS

CATEC is an international corporation that has been providing its customers with engineering solutions for almost 40 years in all types of industries. CATEC has hundreds of customers in Egypt alone and over 200 customers in more than 55 countries worldwide, mainly in Africa, Middle East, Europe, South Asia and North America.

CATEC provides several solutions including mobile containerised steam boiler systems for rig testing, tanks cleaning, piping network steam flushing, heating, avoid production losses during customer's boiler breakdowns. CATEC is proud to be the first company in Africa and the Middle East that provides this type of solutions.

CATEC provides KLÜBER in Germany, specialty lubricants, which have very high quality, in order to enable the customers to maximise their profits by minimising their annual operating costs and breakdowns while optimising their productivity and service lifetime of their lubricated components.

CATEC further provides LUTZ pumps, which quickly and efficiently transfer any kind of fluid, specially for drum and container pumping; and BOSCH boilers, which manufactures the most advanced, reliable, safest and efficient fire-tube boilers in the world.

STAND NUMBER: **2D70** HALL 2

CHEIRON: OPTIMISING MATURE OIL AND GAS FIELDS

Cheiron, previously known as the PICO Cheiron Group, is a privately-owned E&P company with current operating production over 50,000 barrels of oil equivalent per day (boe/d). The Company has assets in Egypt (representing 80% of current production), Mexico and Romania.

Cheiron operates all of its fields and concessions and works in a range of different onshore and offshore environments.

In Egypt, Cheiron Companies are currently operating seven concessions, in partnership with EGAS; EGPC and Ganope, located onshore in the Western Desert and in shallow water in the Gulf of Suez and the Mediterranean Sea. The company's fields in Mexico and Romania are all onshore.

The Company primarily focuses on revitalising and optimising production from mature oil and gas fields with operations spanning the full spectrum of upstream activity - from near field exploration and appraisal to field development and production projects. Using its technical and operational expertise, coupled with prudent cost management practices, the company has a long-recorded track of identifying and realising value which may have been overlooked by prior operators.

As an integral part of its business approach, Cheiron adheres to the highest operating standards and has international Quality, Health, Safety, and Environment (QHSE) ISO Accreditation, and complies with the World Bank Equator Principles.



STAND NUMBER: **2C38** HALL 2

SINOTHARWA: HIGH-QUALITY RIGS

SinoTharwa Drilling Company is a limited liability company which owned 33 Rigs (16 land rig, 9 work overs, 7 polling units, jack -up bahari -1), in addition to mud logging, well logging and cementing.

Quality, health, safety and environment (QHSE) is our simple equation that concludes the science of protection concept which represents the steering engine for all our actions.

The health and safety of the organisation's employees and the well-protected environment, under a high-standard quality control, is the core of our goal.

We knew since when we decided to enter the oil and gas sector that we are stepping into the riskiest industry ever and we will face a lot of daunting challenges, but we were and we still do believe that with a good pre-planning, by setting the right standards and policies, and with the sharp monitoring and continuous follow up, we will be able to overcome any challenge we will face and we will be able to reach our goal of creating a free accident work environment because simply the safety of each member of Sino Tharwa family is our first priority.



All of this cannot be achieved unless the organisation work -steering is guided by a well-established quality management system which is recognised by highly trusted parties. That is why, Sino Tharwa is awarded by the ISO 9001- 2015, OHSAS 18001-2007 And the ISO 14001-2015. All of these certificates were awarded to the company with zero non-conformities recorded, which is reflecting the company's commitment to fully comply with all applicable standards, as well as the goal of zero discharge.

STAND NUMBER: 2F30 HALL 2

ELAB PRODUCES ECO-FRIENDLY LAB

ELAB was established on November 23rd, 2003 with a production capacity of 100,000 tons of LAB and 4,500 tons of HAB annually to cover the local and international demand. LAB is the main raw material in detergents manufacturing.

ELAB follows the latest state-of-the-art technology of the Licensor company UOP, which is one of the major companies specialised in this field.

Feed materials used in the production of LAB are Jet A1, Kerosene and reformat.

ELAB comprises of three main process units, a front end unit to produce normal paraffins; back end unit to produce LAB; sulfolane unit to produce benzol; and detal unit utilises solid catalyst, instead of liquid HF acid, which is considered harmful to the environment and enables ELAB to produce high quality LAB that is eco-friendly as well.

Considering the importance of HSE and quality, ELAB succeeded in obtaining the ISO 9001, 14001 and OHSAS 18001.

ELAB has adopted energy management plan, which is in synchronised with the policies of the Ministry of Petroleum in order to rationalise the use of energy, according to the international criteria of ISO 50001.



ELAB always strives to increase production capacity through applying water injection system, which was positively reflected in increasing production and probability.

LAB is exported via export 9 km pipeline extended to Alexandria Port directly, through agreement with the German Company Helm AG.

Additionally, ELAB plays a key role in terms of satisfying the local demand of LAB through agreement with ECHM to sell LAB domestically.

The actual production of LAB since start up until date has exceeded one million tons of LAB and 50,000 tons of HAB

ELAB succeeded in occupying a distinguished position internationally among world LAB producers. LAB is exported to 40 countries because of its high quality and compatibility with the environmental requirements.

STAND NUMBER: 1A10 HALL 1



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VISIT US AT STAND **2D68**

SAHARA INTEGRATED (SI) PRESENTS INTERACTIVE BOOTH

Sahara Integrated (SI) is a group of eight companies. The eight companies are going to use our platform at EGYPS 2019 to highlight our capabilities for offering new technical services for the upstream and downstream activities in oil and gas, power and petrochemical sectors in the MENA region.

Our interactive booth at EGYPS 2019 is taking our clients into a journey, showing SI activities offered in each phase of the oilfield integrated timeline, covering exploration, drilling and production, well intervention, midstream and downstream industrial services for process facilities, petrochemical, refineries and power stations, and applications of our innovative chemical solutions technologies used across all phases, which are all supported by our accredited courses of training and education.

We are also dedicating a section in our booth for short technical presentations with Q&A over the three exhibition days held by technical experts in the industry.

During the first day of EGYPS 2019, Sahara will contribute to sessions held through the field study entitled 'A Successful Removal of Barium Sulfate Scale, Using a New Formulation in an Offshore Well in East ZEIT Oil field, Egypt: Field Study' By Ahmed Reda - Petroleum Engineering Section Head at East Zeit Petroleum Company - ZEITCO.

During the second day, Mohamed Mahmoud - Chief Reservoir Engineer at Sahara Oil & Gas - SOG, will present SOG Success Stories for Operating Oil Fields.

Additionally, Ahmed Kamal / UAE and North Africa Manager, EV UK will make a presentation on Downhole Visual Analytics - Stop Guessing About Your Well, and Dr. Mohamed Samir - Operations Manager at Sahara Oil & Gas - SOG, will present A Novel Technique to Improve Productivity in Western Desert Wells.

Moreover, a presentation entitled 'Electrical Equipment Testing and



Commissioning' is planned to be made by Magdy Shemis Electrical Erection Manager and Substation Commissioning Manager.

PowerServ, EGYPTROL, and another entitled 'INNOVA Braden - Retrofit Experience for Gas Turbine Auxiliaries' will be presented by Moustafa Al-Shami, Business Development Manager, at Middle East Innova Braden.

During the third day of EGYPS 2019, Dr. Melissa Johansson, CEO of Geode Energy UK will make a presentation on Big Data and Analytics for E&P, while Mohamed Abu Bakr, Chief Technical Officer; and Mohamed El-Sofani, Senior Technical Sales Engineer at Sahara Chemical Solutions (SCS) will present A Successful Removal of Barium Sulfate Scale, Using a New Formulation in an Offshore Well in East ZEIT Oil field, Egypt: Field Study.

Moreover, a presentation entitled 'Steam Blowing as Part of Plant Commissioning Activities' will be made by Gomaa El Gazzar, Commissioning Manager at PowerServ / EGYPTROL. In addition, Ian Crossland, Area Vice President at RESMAN, will make a presentation entitled 'RESMAN - RESTRACK: A Technical Overview of RESMAN Tracer Technology'.

SI provides Leading Edge Integrated Solutions for each process in the Oil and Gas Industry. with professional teams and in collaboration with its partners, SI delivers turnkey project solutions Serving Oil and Gas Industry since 1974.

Our stand number is #2H30 - Hall 2, we look forward to seeing you there.

STAND NUMBER: **2H30** **HALL 2**

ASIAN GIANT PETRONAS DEBUTS IN EGYPS 2019

PETRONAS will be at EGYPS 2019 for the first time this year to showcase its integrated, end-to-end capabilities to the region. Operating in Egypt since 2001, PETRONAS is Malaysia's multinational oil and gas company. We are present in more than 80 countries across six continents. With over 40 years of experience across the integrated value chain, we offer innovative solutions and game-changing technologies from upstream, midstream to downstream in order to deliver efficient, reliable, and sustainable energy to the world.

With a strong presence in Southern, Central, and West Africa, PETRONAS hopes to expand further in North Africa and the Mediterranean, seeking opportunities for partnerships across the value chain.

We have the world's first floating liquefied natural gas (LNG) facility, PFLNG Satu, designed to liberate trapped fields. Our deep-water capabilities were demonstrated with the tremendous success of the Boudji-1 well in Gabon last year, which also highlighted our ability and confidence in finding oil in a gas-prone area. We have decades of experience in rejuvenating mature fields.

Would you like to come on board the world's first floating LNG facility, the PFLNG Satu? With our PFLNG 360-Virtual Reality experience, you can! Stand at the top of the structure and

look down. Explore the living quarters, helideck, mess hall and other areas. We will also be screening a short National Geographic documentary on PFLNG Satu on our touchscreen displays.

PETRONAS will also have a strong technical presence at EGYPS2019, with six technical speakers at the conference. Hence, if you're keen on learning more on PFLNG Satu and our next-generation PFLNG Dua (onstream in 2020), then, come listen to Ikhwan Yusoff, our Technical Professional in Front-End Engineering and Design. Ikhwan worked on the PFLNG project and will be speaking on the topic of "PETRONAS floating LNG - completing the LNG value chain through technology", at the Technical Conference in the afternoon of Day 2.

Moreover, for a bigger picture, catch PETRONAS Egypt Operations Chief Executive Officer, Dato' Abu Fitri Bin Abdul Jalil, while talking on "Redefining the gas and LNG playing field: the role of the Mediterranean in becoming a gas hub and the next natural gas hotspot," at the Leadership Panel on Day 2.

Visit our booth to know what we're doing in Egypt, and what else we can do in North Africa and the Mediterranean.

Visit our stand #3B60 at Hall 3 and reinforce old friendships or make new friends. We look forward to meeting you.



STAND NUMBER: **3B60** **HALL 3**

STRATOCHEM: EXPECT MORE THAN DATA; EXPECT SOLUTIONS

With 30 years of experience, StratoChem Services is one of the world's most respected organic geochemical labs, offering a wide variety of cuttings, core, oil, and gas analyses to a devoted upstream client-base around the world.

Using the latest analytical equipment and decades of interpretive experience provided by a team of top scientists, StratoChem provides its customers with comprehensive

answers to play questions at all stages of the exploration and production processes.

Moreover, StratoChem embraces new methods and technologies, with a line of proprietary data-processing software and an active research and development program.

With StratoChem, expect more than data; expect solutions.



STAND NUMBER: **3H44** **HALL 3**

SHUTTLE BUS SCHEDULE



ZONE 1: 90 Street: Dusit Thani LakeView, Helnan Landmark
ZONE 2: Ring Road: Royal Maxim Kempinski, Renaissance Mirage City, JW Marriott
ZONE 3: Nasr City Zone: Intercontinental City Stars, Holiday Inn



SHUTTLE BUS FROM HOTELS TO THE VENUE

	Departure Time - Monday 11 February			Departure Times - Tuesday 12 & Wednesday 13 February			
	First Departure	Second Departure	Third Departure	First Departure	Second Departure	Third Departure	Fourth Departure
90 Street Zone							
Dusit Thani LakeView	12:45	13:00	13:30	08:45	09:00	09:15	09:30
Helnan Landmark	12:55	13:10	13:40	08:55	09:10	09:25	09:40
EIEC Arrival	13:15	13:30	14:00	09:15	09:30	09:45	10:00
Ring Road Zone							
Royal Maxim Kempinski	12:45	13:15	-	08:30	08:45	09:00	09:15
Renaissance Mirage City	13:00	13:30	-	08:45	09:00	09:15	09:30
JW Marriott	13:15	13:40	-	08:55	09:10	09:25	09:40
EIEC Arrival	13:30	14:00	-	09:15	09:30	09:45	10:00
Nasr City Zone							
Intercontinental City Stars	12:50	-	-	08:35	08:45	09:00	09:20
Holiday Inn	13:00	-	-	08:45	08:55	09:10	09:30
EIEC Arrival	13:30	-	-	09:15	09:30	09:45	10:00

DEPARTURE FROM VENUE TO HOTELS		
Monday 11 February	Tuesday 12 February	Wednesday 13 February
19:15	19:15	19:00
19:30	19:30	19:30

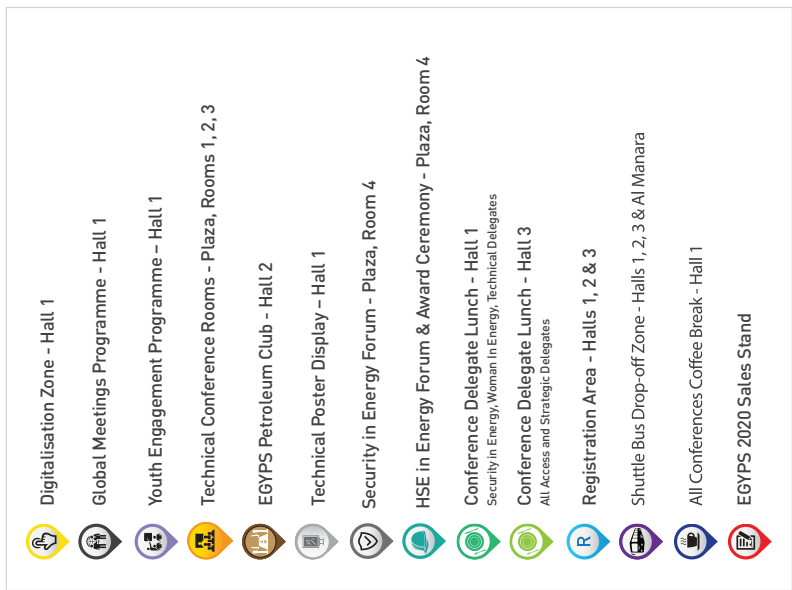


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