The Region's Leading Oil & Gas Exhibition & Conference

10th Edition
Oil & Gas
Oman
OGWA

The EOR Paradigm Shift

SPE Conference Theme:
The EOR Paradigm Shift

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EXPANDING ENERGY MARKETS

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Exhibition Organizer

Conference Organizer

Under the auspices of

Ministry of Oil & Gas

Omanexpo
Global Business Platform

Society of Petroleum Engineers
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Ministry of Oil & Gas
Much of Oman’s activity is being fueled by the strong and positive outlook for oil. Oil and gas remain key contributors to export a main source of revenues. Currently, the government is seeking to increase exploration and production operation of reserves, invest in the discovery of new oil and gas fields, attract investments into Oman’s petroleum resources, and continue to place importance on enhanced oil recovery (EOR) techniques, while introducing new technologies. It is targeting to boost the share of oil from EOR projects by 2021. International oil companies (IOCs) particularly those utilizing EOR and natural gas projects are playing a major role in the industry by undertaking new exploration and production projects.

In 2014, the government’s spending stood at US$ 8.7 billion while spending on natural gas production was US$ 2.8 billion. Total revenues stood at 5,306 million barrels of oil and condensates and 24.3 trillion cubic feet of gas. Daily oil production was at 943,000 barrels of crude oil and condensates, an increase of 0.2% from 2013.

Total expenditure in oil and gas exploration and production in 2014 was US$ 11.5 billion.
The Sultanate of Oman’s growth into a successful oil and gas producing country had a challenging start. The first exploration well project in the 1950’s was unsuccessful. Though the geological reconnaissance was conducted in Oman as early as 1925, which found no conclusive evidence of oil reserves, the eagerness for oil search continued. The intensive oil exploration by the neighboring countries continued to encourage and raise hopes on the subsurface geology to have oil reserves in Oman. Eventually, the patience and intensive efforts put in by the geoscientist in Oman in search of oil paid off and a new era in the country started.

Exploratory Activities

The Sultanate of Oman granted the first oil concession license to Darcy Exploration Company for exploration rights in the country in 1925. Twelve years later, in July 24, 1937, the concession license granted to Darcy was transferred to Petroleum Concessions Company Ltd which was subsequently re-named as “Oman and Dhofar Oil Company Ltd”, (part of Iraq Oil Companies Group), who exercised the exploration and production rights on behalf of the Iraq Petroleum Company (“IPC”). Later In 1951, Oman and Dhofar Oil Company (Ltd)”, assigned its concession rights in Dhofar Region to Dhofar City Services Company(DCSC). A year later, Oman and Dhofar Oil Company (Ltd) changed its name to Petroleum Development Oman (“PDO”).

Until 1954, the exploration activities were limited to geological studies. This was due to several challenges, including those related to logistics, which gave access to the most promising oil prospects despite the limitation in roads & transportation. The effort in search for oil continued and in 1955, DCSC drilled the first wildcat well in south Oman, named Douqah-1 and in 1956, PDO drilled its first exploration well in north Oman named FHD-1. Both wells were dry. These failures combined with worsening logistical problems and a surplus oil supply in the world market led to the withdrawal of some of the oil companies as operators. Nonetheless, a few shareholder companies including Shell opted to remain in the Sultanate and continue their efforts for oil search.

The first oil discovery in the Sultanate was made in 1956, through Dhofar City Services Company Marmul-I well. This discovery; however, was not considered as a commercial discovery because the oil found was of heavy type compared to oil discoveries in the neighboring Arab countries at that time.

In 1962, PDO’s exploration activities culminated in achieving the commercial discovery of oil in the Yibal field, followed by giant discoveries in Natih and Fahud fields in 1963 and 1964 respectively. These discoveries were a turn over and a starting point to the birth of an oil-producing country.

Following these successful discoveries and production test, investment for a pipeline to transport and export the crude was critical. In 1964 PDO constructed a 279-kilometer export pipeline from Fahud to Al Fahal port in Muscat. Three years later, in August 1967, a major milestone was achieved by the first oil cargo reported from the Sultanate of Oman via this pipeline.

PDO further intensified exploration activities by conducting more geophysical surveys and increased exploration well drilling leading to the discovery of more oil fields. As a result of these efforts, in 1968 and 1969 the Al-Khuwair and Al-Huwaish fields were discovered, respectively. Further discoveries were declared in 1972 represented by North Ghabah, Qarn Al-Alam, Nuhaida and Habour fields, followed by Amal field and Saih Rawl field in 1973.
Encouraged by the results of these successes in discoveries and productions, the government in 1973, signed two new concession agreements to explore oil and gas and another two in 1975 with international oil companies. By 2009, the number of oil-producing fields reached 135 fields with 21 concession holders.

In 2013 MOG signed three concession agreements with different international oil companies in accordance with the principle of exploration and production sharing agreement. The total active fields by 2013 were 194 (162 oil & 32 gas).

In 2013, the total number of companies which were working in oil and gas exploration and production reached sixteen (16), working on thirty (30) concession areas, optimizing the use of the local resources, initiating employment opportunities by hiring and training Omanis and contributing to the local community development in particular and to the Oman economy in general.

### Production

Following the production in different fields, the Sultanate’s crude oil and condensate daily average production in 2013 reached around 941 thousand barrels per day, compared to 300 thousand barrels per day in 1972. Currently there are eight companies that contribute to the production of oil and condensates, which are: Petroleum Development Oman, Occidental Oman, Daleel Petroleum Company, PTTEP, DNO, Occidental Mulhaizna, CCED and Petrogas and expecting more to come.

By 2000, the availability of gas was more than the local demand. The government then decided to explore gas export opportunities. As a result, Oman Liquid Natural Gas Company (OLNG) was established, with two trains having a total capacity of 6.6 million tons per year. This capacity was raised to 10 million ton per year by adding the third train, which is operated and managed by Qalhat Liquefied Natural Gas Company (QLNG).

The demand from the power sector and domestic industrial sector increased, thereby necessitating increased efforts to find more gas. MOG agreed in 2006 with British Gas Oman (BG) for the exploration of Abu Butabul (Block 60) and in 2007 British Petroleum (BP) for Khazzan- Makarem gas fields (Block 61). As of 2012, there were five companies which were producing natural gas: Petroleum Development Oman, Occidental Oman, DNO, PTTEP and Daleel Petroleum.

Total reserves stood at 5,306m barrels of oil and condensates and 24.3 trillion cu. ft of gas at the end of 2014.

**Petroleum Development Oman (PDO) is preparing to spend significant amounts to boost exploration and production (E&P) activities in the next five years.**

Reports show that the company will invest US$26bn, as part of a longer-term plan to spend US$60-70 billion in the oil and gas sector over the next 10 years.
MAJOR PROJECTS

Rub Al Khalii Basin

Location: Block 49 and Block 52
Value: US$40 million
Area: 15,438 sq km + 90,760 sq km
Water Depth: 40 m
Start-up Year: 2015
Operator: Circle Oil 100% interest

The Sahmah play in the Rub Al Khalii Basin in Saudi Arabia has been a major provider of hydrocarbons for many years. In addition several billion barrels of oil have been discovered in Pliocene/Cambrian reservoirs associated with the Ara salt in the South Oman Basim to the southeast of the block.

Khulud Tight Gas Project

Location: Block 6 concession
Value: US$200 million (capital)
Area: unknown
Depth: 5,000 metres
Start-up Year: 2017
Operator: Oman Govt., Shell, Total, Partex

One of the deepest tight gas field in the world. Calling for US$200 million capital expenditure, this Khulud pilot project should help PDO and Shell to measure the sustainability of the production rates with the selected technologies and to evaluate the commercial viability of a potential Khulud Tight Gas Full Field Development project in a second phase.

Bukh & West Bukha Field

Location: Offshore Oman
Value: US$45 million
Area: 423 sq km
Water Depth: 90 m
Start-up Year: 2015
Operator: DNO International

Bukha field has a life expectancy of 15 years, and produces 28 MMcf/d (0.79 MMcm/d) and 5,000 to 10,000 bopd of condensate. West Bukha’s field development consists of two wells (led back to the six slot unmanned West Bukha fixed platform located in 295 feet (90 meters) of water. The West Bukha field commenced production on Feb. 18, 2009 and now at a rate of 10,000 bopd and 30 MMcf/d (0.84 MMcm/d).

Main Oil Line To Ras Markaz Terminal Pipeline (From Nihayda To Duqm)

Location: Nihayda to Ras Markaz Terminal
Value: NA
Area: --- Length 440 km
Start-up Year: 2015
Operator: OTTCO, Oman Oil Company (OTTCO) is planning to build a large strategic crude storage facility. The land is big enough to store almost 200 million barrels of crude oil reserves and (refined) products. The first phase of the project for approximately 25 million barrels storage capacity, is planned to be on stream by the end of 2018.

Ras Markaz Duqm Crude Storage Facility (Crude Oil Park Project)

Location: Oman Oil Company (through Oman Tank Terminal Company (OTTCO)) is planning to build a large strategic crude storage facility. The land is big enough to store almost 200 million barrels of crude oil reserves and (refined) products. The first phase of the project for approximately 25 million barrels storage capacity, is planned to be on stream by the end of 2018.

Block 50 Oman Concession

Location: Off the east coast of Oman
Value: US$ 25 million
Area: 4,500 sq km
Water Depth: 3000 m
Start-up Year: 2014
Operator: Masirah Oil Ltd. (Masirah)

The Block 50 Oman Concession, like most of Oman’s offshore acreage, is largely unexplored. Although previous operators have acquired over 4,500 km2 of seismic, the quality is variable and typically poor where shallow updrafts layers occur. These layers are a feature of the geology off the coast of Oman.

Block Oman 56

Location: Salt basin, West azz Battery, Arabian Sea coast
Value: Undisclosed
Area: 5,808 sq km
Water Depth: 90 m
Start-up Year: 2014
Operator: Frontier Resources

Covering 5,808 sq km and estimated to hold an estimated 370 million barrels Oman 56 is located in the prolific Salt Basin where there have been three identified technical discoveries. Another six potential prospects lie in the block. Modco holds the majority working interest in Oman 56 and is expected to drill three exploration wells in the first half of a six-year exploration campaign.

Block 38

Location: Offshore Oman
Value: US$ 40 million
Area: 17,425 sq km
Depth: 3000 m
Start-up Year: 2015
Operator: Oman Oil Company

Oman Oil Company (through Oman Tank Terminal Company (OTTCO)) is planning to build a large strategic crude storage facility. The land is big enough to store almost 200 million barrels of crude oil reserves and (refined) products. The first phase of the project for approximately 25 million barrels storage capacity, is planned to be on stream by the end of 2018.

Block 50 Oman Concession

Location: Off the east coast of Oman
Value: US$ 25 million
Area: 4,500 sq km
Water Depth: 3000 m
Start-up Year: 2014
Operator: Masirah Oil Ltd. (Masirah)

First gas is due in 2017 and eventually total gas produced from the field will deliver around a third of Oman’s daily domestic gas supply. The full field development will involve a drilling programme of around 300 wells over 15 years in a tight gas reservoir. This will deliver a plateau production of one billion cubic feet (28.3 million cubic metres) of gas per day and 25,000 barrels per day of gas condensate. It is estimated to contain 30 trillion-40 trillion cubic feet (tcf) of gas.

Khazzan Project - Block 61

Location: Az Zahirah Province, Block 61
Value: US$ 156 million
Area: 2,800 sq km
Water Depth: not applicable
Start-up Year: 2017
Operator: BP operates Block 61 with 60% stakes, 40% OOCEP

One of the deepest tight gas field in the world. Calling for US$200 million capital expenditure, this Khulud pilot project should help PDO and Shell to measure the sustainability of the production rates with the selected technologies and to evaluate the commercial viability of a potential Khulud Tight Gas Full Field Development project in a second phase.

OTTCO will build a new crude oil pipeline that will link Oman’s Main Oil Line in central Oman with the Ras Markaz Terminal. Nihayda is where Oman’s crude is pumped from different fields is collected and mixed to form the Oman blend before it is pumped via the Main Oil Line to Min'a Al Falah for export. This proposed pipeline from Nihayda to Ras Markaz will also serve as a second export line for Oman’s export crude.

The Sahmah play in the Rub Al Khalii Basin in Saudi Arabia has been a major provider of hydrocarbons for many years. In addition several billion barrels of oil have been discovered in Pliocene/Cambrian reservoirs associated with the Ara salt in the South Oman Basim to the southeast of the block.
Launched in 1998, OGWA is now on its 10th edition. The number of exhibitors and visitors has been steadily increasing over the last 20 years.

Since its launch, it has been receiving the support of the Ministry of Oil & Gas, Petroleum Development Oman (PDO), Oman LNG, and other leading local companies.
OGWA Exhibition and Conference 2016 is a gathering of local and international oil and gas companies, technology and service providers, equipment suppliers, and other companies directly serving the industry’s requirements. It is a forum for discussing the latest developments and directions of the industry, as well as a platform for trade and business opportunities for the oil and gas companies and international oil and gas firms.

OGWA is a three-day event that is held every two years. It was launched in 1998 and is now on its 10th edition. Since its launch, it has been receiving support from the Ministry of Oil & Gas, Petroleum Development Oman (PDO), Oman LNG, and other leading local companies.

**WHY EXHIBIT**

- Introduce your new products, equipment and services
- Learn about the latest developments in the industry
- Establish new business contacts
- Interact with industry high-ranking executives and decision makers

**EXHIBITION PROFILE**

- Accessories
- Actuators
- Artificial lift equipment
- Cable – power, control, and instrumentation cables
- Cargo / Cargo handling equipment and services
- Down hole equipment
- Drilling / Drilling vessels/platforms/completion services
- Electrical systems and transmission equipment
- Enhanced recovery systems
- Exploration and production
- Fasteners
- Filtration systems
- Flexible pipes
- Floating production storage vessels
- Heat exchanger / transfer
- Construction and repair / Contracting services
- Consultants
- Control systems / Corrosion / Abrasion control
- Coiled tubulars
- Communication equipment and services
- Compressor equipment and services
- Connecting and fittings
- Land transportation and services
- Lighting equipment
- Mechanical systems
- Monitoring and transformation
- Power generation / Power supply
- Process equipment and services
- Production equipment / services / system valves
- Production vessels / platform
- Technical, laboratory and computer services
- Tools
- Training
- Transportation and communication
- Treatment systems
- Tubular equipments / services / pipings
- Valves and actuators
- Waste disposal
- Hydraulic systems
- Injection equipment / services / pumps
- Instruments and control
- Stimulation products / services
- Storage systems
- Oil and gas transport
- Pipeline systems and equipment
- Pollution and spill control / clean up
- Pump equipment and services
- Research and development
- Safety equipment / systems / valves
- Well completion
- Well control systems
- Well services / platforms / systems / equipment
WHY VISIT

» Be informed about the current major oil and gas projects in Oman and evaluate investment opportunities.
» Gather information on new products, services, current technologies and systems in the local, regional and international markets.
» Discover new leads for major business opportunities and potential partnerships.
» Obtain additional and insightful knowledge from experts in the field and enhance your professional and technical competence.
» Engage in constructive discussions with industry peers on the industry.

VISITOR PROFILE

Specialists from the Oil and Gas Industry
- Engineers
- Technical Managers
- Geologists
- Geodesists

Service Companies

Representatives of Construction Companies

Representatives of Government Institutions

Business Executives

Heads of Oil Companies

Managers and Employees of Energy Companies

Representatives of Environmental Companies

WHY SPONSOR

To maximize the impact of your participation, OGWA 2016 presents a broad range of sponsorship opportunities that will give you a sure edge over your competitors. It will also further boost your company’s presence in the local and regional markets.

Each sponsorship option entitles you to extensive media mileage. Many other benefits are specific to a particular sponsorship option to ensure that you get the highest promotional value for your investment.

Contact us today for more details on each sponsorship opportunity.

SPONSORSHIP OPPORTUNITIES

» Main Sponsorship
» Platinum Sponsorship
» Gold Sponsorship
» Silver Sponsorship
» Oilman’s Lunch Sponsorship
» Registration Counter Sponsorship
» Lanyard Sponsorship
» Visitor Badge Sponsorship
» Visitor Bag Sponsorship
» Floor Plan Sponsorship
The SPE EOR Conference is Calling for Papers.
Submit your paper proposals before 5 October 2015 to www.spe.org/events/ogwa

Why Should You Attend the SPE EOR Conference alongside OGWA?

• Obtain relevant information on the current technologies and systems in the industry.
• Be informed about the latest developments in the industry.
• Learn about the current strategies being implemented to address the challenges facing the industry.
• Obtain additional and insightful knowledge from experts in the field through their presentations and enhance your professional and technical competence.
• Engage in constructive discussions with industry peers on the industry.
• Discover new leads for major business opportunities.

Plenary Session - The EOR Paradigm Shift
Panel Session 1 EOR Collaboration Strategies
Panel Session 2 EOR Operational Excellence
Panel Session 3 EOR Enablers

The SPE EOR Conference is Calling for Papers.
The media campaign includes:

- Heavy ad placement in local and regional media, both in English and Arabic
- Advertisements and editorial coverage in oil & gas trade publications
- Regular press releases in local and regional newspapers, magazines, and websites
- Email and fax campaigns targeted at industry professionals throughout the Middle East region
- SMS broadcasts before and during the event
- Distribution of flyers, e-newsletters and personalized invitations
- Radio announcements
- Billboard ads
- Social media channels such as Twitter, Facebook and LinkedIn

The Most Extensive Media Coverage

OGWA 2016 will be aggressively promoted utilizing all media channels to ensure attraction of the largest number of industry professionals and trade visitors possible. The promotion campaign will cover not only Oman, but the whole Middle East region and other parts of the world.

MEDIA REPORT

- Press Releases: 28%
- Print Ads: 20%
- SMS: 8%
- Online Banner Ads: 10%
- Social Media: 9%
- Electronic Direct Mail: 20%
- Radio: 5%

LOOKING BACK: A CLOSER LOOK AT OGWA 2014

OGWA 2014 was successfully held from March 31 to April 2 at the Oman International Exhibition Center.

Exhibiting Countries

- Belgium
- China
- Egypt
- France
- Germany
- Hungary
- India
- Indonesia
- Italy
- Iran
- Saudi Arabia
- Malaysia
- Norway
- Oman
- Qatar
- Romania
- Singapore
- South Korea
- Turkey
- Thailand
- Ukraine
- UAE
- USA
- Vietnam
On behalf of the Ministry of Oil & Gas, I would like to reciprocate by thanking your team for making this event a truly success story and showcase for Oman oil and gas industry. Your relentless engagement and support had made this one an exceptional event.

Dr. Salim bin Nasser Al Aufi
Undersecretary, Ministry of Oil & Gas

It is a great pleasure for BP Oman to participate in OGWA 2014. Our participation at the exhibition gives us the opportunity to learn more about our activities towards gas development, Omanization and corporate social responsibility. It also explains BP's presence in the Middle East and gives the latest information about the Khazzan project.

Dave Campbell
General Manager, BP Oman

It is my pleasure to take part in the OGWA exhibition and conference. Special thanks to the management of Omanexpo and to all the sponsors for supporting this event. Events of this sort are required for us to explore new ways and methods that can enable more efficient, value-adding and sustainable solutions. It also no doubt provides a unique platform to share our understanding of the complexities of our reservoirs and improved development and recovery processes.

Raoul Restucci
Managing Director
Petroleum Development Oman

Shell Scheme:
US$ 530 / RO 200 (per square meter)

This includes white panel walls, fascia and name board, carpeting, two spotlights, a 13-amp power socket, one table and two chairs.

Space Only:
US$ 475 / RO 180 (per square meter)

This consists only of bare floor space for those exhibitors who want to design and build their own stand.

About the Organizer

Omanexpo is the pioneer event management company in Oman and the Sultanate's leading organizer of major trade shows, exhibitions and conferences. Its primary objectives are to effectively connect buyers and traders, promote business and trade involving local and international companies, and facilitate the introduction of new products, equipment and technologies into the market.

For more information, visit www.omanexpo.com.

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For more details on sponsorship opportunities and stand or space booking, please contact:

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