



2nd MOROCCO OIL & GAS SUMMIT 2019

6-7 FEBRUARY 2019, MARRAKECH, MOROCCO

The Official Oil & Gas Event of Morocco



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المكتب الوطني للهيدروكاربورات و المعادن
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OFFICE NATIONAL DES HYDROCARBURES ET DES MINES

Letter of Endorsement

DG/N° 328-18

17th July 2018

The 2nd Morocco and West Africa Oil & Gas Summit, 6th - 7th February 2019, Marrakech Morocco

On behalf of ONHYM, I wish to introduce you to Ms. Chryssa Tsouraki, Director at IN-VR Oil & Gas and her team, whom are the appointed organizers of the "2nd Morocco and West Africa Oil & Gas Summit", to be held in Marrakech from 6th to 7th February 2019.

ONHYM, the Moroccan National Oil company is pleased to fully support and actively participate in this important event.

The Government of Morocco is committed to develop the oil and gas industry in partnership with all stakeholders in an efficient and effective way to the benefit of the kingdom, the region, and create value for our partners and investors.

By providing Morocco and West Africa with this platform, the Morocco Summit is an event of the utmost importance, as Morocco and many West African countries move towards commercial production with new projects; we have many areas to address to ensure that best practices solutions are developed. We are excited about how the Moroccan oil and gas sector will continue to develop over the coming years, and we look forward to you all being a part of our future in the oil and gas industry. A warm welcome awaits you in Marrakech.

Sincerely

Madame Amina Benkhadra

Director General of ONHYM



LETTER FROM THE ORGANISERS



Dear attendee,

It is with great pleasure to welcome you in Marrakech for the 2nd Morocco Oil & Gas Summit, mostly known as the **Morocco Summit**.

Morocco is undoubtedly the most under-explored country in North Africa and among the least explored in Africa. However, it's one of the most promising countries with significant discoveries and leading oil and gas companies involved.

We have been working very closely with **ONHYM** to build the second edition of their Official Oil & Gas Summit after the great success of the first one launched in 2014.

The Morocco Summit will shed light on exploration, geological, business and licensing updates in Morocco, as well important pipeline and gas projects across the region.

The Morocco Summit will be addressing all the business opportunities identified in the country so you can gauge your involvement and strategy accordingly.

We would also like to express our warmest regards to ONHYM for their kind support.

Best Regards,

Chryssa Tsouraki
Managing Director
IN-VR Oil & Gas



- Morocco is blessed with massive hydrocarbon reserves; the United States Department of Energy has declared that oil shale deposits in Morocco constitute about 3.5% of the world's known oil shale resources, containing more than 53.381 billion barrels of shale oil:
 - The Timahdit field has 15 billion barrels of oil
 - The Tarfaya field has 23 billion barrels of oil
- Morocco is a rapidly growing energy market, with demand in primary energy and electricity set to double in the next 3 years, creating many opportunities for projects
- In terms of hydrocarbons production:
 - In the Essaouira basin the Mescala gas condensate field has 5,5 billion m³ in recoverable reserves
 - The Gharb Basin has more than 102 Million m³ of recoverable biogenic and thermogenic gas reserves
 - The High Plateaus in Tendara have 881 BScf
- The country's location puts it in the direct vicinity of many recent discoveries including the Algerian Triassic Province and the Saharan Hercian in Eastern Morocco
- In terms of offshore hydrocarbon exploration, Morocco has a total area of 3000 sq km ranging up to 4000 m in depth, consisting of Mesozoic and Cenozoic sedimentary basins
- More than 800 prospects and leads have been identified in onshore and offshore
Significant discoveries have taken place in the past few years:
 - 2 highly productive wells consisting of 17 MMscf/d and 32 MMscf/d were discovered in Tendara
 - 35 commercial discoveries were made in the Gharb onshore fields with a production cost of under 2\$/MMBTU
 - New productive zones discovered in the Essaouira Onshore
 - 2 shallow-water and 3 deep-water wells discovered oil and gas deposits





ABOUT IN-VR OIL & GAS



IN - VR OIL & GAS

IN-VR Oil & Gas was brought together by a group of oil and gas marketing experts who have been working in the Petroleum B2G and B2B promotion industry for over six years. IN-VR Oil & Gas provides excellent networking opportunities to meet with Ministers and key decision-makers in the oil, gas and mining industries.

We take pride in working very closely with international Governments to offer you the most relevant content and fruitful face-to-face networking opportunities.

Meet with high-level petroleum decision-makers and hear exclusive updates from Operators, Ministries and key service companies whilst enjoying informal and relaxed networking sessions. Our Summits are the ideal place to meet new contacts and develop your oil and gas business in the Mediterranean.

MOROCCO 2019 SPEAKERS INCLUDE:



H.E Amina Benkhadra
General Director
ONHYM



Paul Welsh
President and Chief
Executive Officer
SDX Energy



Larry Bottomley
CEO
Chariot Oil & Gas



Pierre Benichou
Executive Chairman
Geox



Wafae Benhammou
Director for Partnerships &
Promotion
ONHYM



Lahcen Boutib
Director, Shale Gas
Department
ONHYM



Giuseppe Pasi
Country Manager Morocco
ENI



Francisco De la Flor
Director of Regulation
Enagas S.A



Jonathan Redfern
Director
North Africa Research
Group, University of
Manchester



Anass Joundy
Principal Banker - Natural
Resources
European Bank for
Reconstruction and
Development

more speakers to be announced shortly ...

Program

08:30

Registration

09:45

Welcome from IN-VR

09:55

Opening remarks by the Chair

10:00

Opening Speech by the **Ministry of Energy and Mines**

10:15

Keynote Presentation: Introducing the National Office for Hydrocarbons and Mining: attributions & strategic orientations

- Its vision for the Moroccan oil industry
- ONHYM's effective business structure, and its role as the key point for the hydrocarbon future of Morocco
- How is ONHYM implementing its strategic plans in order to conduct hydrocarbon research and exploration?
- Comprehending ONHYM's dynamic and unique role to enter joint ventures with IOCs to effectively promote the hydrocarbon potential of Morocco and develop a national expertise in the oil and gas international scene
- ONHYM's international role within the African continent

Mme Amina Benkhadra, General Director, ONHYM

10:30

Presentation: ONHYM's Promotion and Investment Strategy

- How is ONHYM operating to establish effective modernisation and development of current expertise to establish prosperous future exploration opportunities with international partners?
- ONHYM's strategic partners- who are they and what does the permit map look like as of today?
- An analysis of the procedure of granting reconnaissance licence and exploration permits in Morocco
- How is ONHYM supervising and overlooking the successful implementation of such contracts and permits?
- ONHYM's strategy to bring IOCs investment in Morocco by offering complementary and free of charge access to its data
- ONHYM's investment in Morocco: What were its surging investments in oil exploration in 2018 and what is the outlook for 2019?
- What is the international investment in the oil and gas industry in Morocco looking like at the moment and what does the future hold for 2019?
- What are the current drilling plans onshore and offshore Morocco and how is ONHYM contributing and how?





11:00

Presentation: Morocco - Petroleum Exploration Achievements and forecast

11:30

Morning Coffee Break

12:00

Presentation: Morocco's Atlantic offshore geology and intriguing petroleum plays; have they been adequately explored?

- Discussing how Morocco's yet under-explored structures can prove rich hydrocarbon potential
- What are the recent exploration activities showcasing and locating the most promising play concepts?
- An analysis of the existing wells to understand how to counteract the very low number of exploratory wells on most basins and the very limited number of exploration concepts tested so far
- Risk-taking in Morocco: Undeterred E&P activity in a still largely under-explored country

12:30

Presentation: The Mediterranean Sea: A new promising frontier area
An analysis of Morocco's actual potential and prospectivity offshore Mediterranean by taking in mind:

- Seismic Data acquisition (from recent hits to legacy data) showing the area's truly immense potential
- Neighbouring countries' discoveries in North Africa and West Europe and its immediate impact in Morocco
- Technological needs: do we need further 3D seismic to reveal the actual potential in the Med?
- Morocco's offshore Mediterranean prospects and petroleum systems that prove organic rich sea beds ready to be explored
- The Alboran Basin as a syn-orogenic to post-orogenic basin
- The source, reservoir and cap rocks and play concepts that confirm a favourable hydrocarbon environment – what further prospects can companies explore?
- Applying latest 3D seismic acquisition technologies and methods to renew the current obsolete data

13:30

Lunch Break



14:30

Presentation: Morocco Onshore Current and future Exploration opportunities

A detailed analysis of Morocco's geology and intriguing petroleum structures and systems

- Morocco's complex geology combining syn-rift salt in the Triassic, in both onshore and offshore basins (Central Atlantic rift)
- Review of petroleum systems found in onshore and offshore basins yet under or completely unexplored

15:00

Presentation: Unconventional Hydrocarbon Exploration in Morocco: Status and Prospectivity

- Shale Gas; A yes or no? What do you need to know in terms of Morocco's current low-importance-shale-strategy in this regard ?

15:30

Presentation: Source-to-Sink Systems in Moroccan Atlantic Margin & Atlantic Conjugate Margins

- Assessing the Atlantic conjugate margins and a brief overview of current exploration activities
- Morocco's complex geology combining syn-rift salt in the Triassic, in both onshore and offshore basins (Central Atlantic rift)
- An analysis of Morocco's offshore potential by focusing on the 3000km Atlantic Margin
- How 2D and 3D acquired seismic data prove an excellent hydrocarbon potential, but are hindered by the lack of effective drilling The proven hydrocarbon occurrences and discovered oil accumulations that show active petroleum systems
- Exploring the potential of the deepwater and potential ultra-deepwater blocks; could it deliver the next discovery in Morocco?

16:30

Afternoon Coffee Break





17:00

Panel Discussion:

Exploration Challenges and Opportunities in Morocco

- Following some of the recent unsuccessful exploration wells, how will these results impact ONHYM's plans and expectations?
- Will any adjustments be made as a consequence of these results?
- In what manner will the climbing oil price change business strategies in Morocco and in the region and what should interested IOCs have in mind in terms of dedicated exploration budget?
- Examining if and to what extent have these results affected other IOC propensity to get involved in Morocco
- How E&P companies and contractors should benefit and make the most of the current low-cost yet experienced service environment in Morocco
- How is ONHYM's strategy planning on keeping up the level of interest in the country, so as to continue to attract international companies and investors?
- How does Morocco plan to optimise its energy strategy to adhere to quickly and successfully overpassing such obstacles?
- Is ONHYM's continuous and dedicated funding in the oil and gas and its international promotion strategy the key to attract investors and partners with the right technical expertise in order to have a significant oil and gas discovery in 2019?
- What are the opportunities for independent Oil companies in Morocco?
- Are there opportunities in the shallow offshore fields for smaller oil exploration players and how can existing offers be fortified?
- How ineffective drilling is the real reason behind the small number of discoveries offshore Morocco

19:00

Drinks Reception and **Gala Dinner**



08:30

Registration

09:20

Conclusion of Day 1 and Opening remarks by the Chair

09:30

Presentation: SDX's recent discoveries in Morocco

- Assessing SDX's significant and promising discoveries in North Morocco
- Exploration in the Gharb basin in numbers: what is next for the 1,362 km² area with 57 wells and 5 fields discovered?
- What does the 3D seismic reveal? Are there more discoveries we should expect?
- SDX's strategy for Morocco; what's next and what's their timeline?

Paul Welch, President and Chief Executive Officer, SDX Energy

09:50

Presentation: The Tendirara licence: Sound Energy's recent significant gas discovery

- Assessing the recent discovery in TE-5 Well in terms of actual numbers and gas quantities
- What is Tendirara's potential and what are Sound Energy's plans for further investment and exploration?
- Assessing the volume of recoverable reserves and how it can project us if necessary on a concrete strategy to further commercially exploit the region
- What does the discovery mean for Morocco's overall gas potential?
- What more shall we expect, where and how?
- Recent updates from the further three wells currently explored by Sound Energy

10:10

Operator Update : ENI**Giuseppe Pasi, Country Manager, ENI**

10:30

Presentation: Mohammedia and Kenitra: uncovering a new petroleum system in offshore Morocco**Larry Bottomley, CEO, Chariot Oil & Gas**

11:10

Morning Coffee Break

11:40

Operator Update Session 3

12:00

Operator Update Session 4

12:20

Presentation: How Morocco's Hydrocarbons Code is the country's key to attracting investors?

- Revealing the country's excellent and advantageous legislation- how does it accommodate the high exploration and investment potential of the country available to investors?
- Analysing all the factors making the Moroccan legislation the most favourable and conducive exploration framework in Africa and a true example for other countries to follow and adopt
- The benefits of simple and flexible entry/ exit procedures to investors Easy and quick granting of all reconnaissance, exploration and exploitation licenses
- Advantageous and attractive taxation terms that prioritise investors by offering quick pay-out and high ROI rates

12:40

Presentation: A thorough breakdown of the current contractual and fiscal regime around E&P activities in Morocco

- Assessing the Reconnaissance license for exploration activities and seismic acquisition in the country
- The Petroleum Agreement: granting exploration permits and exploitation concession for the commercially exploitable deposits
- The attractive fiscal terms and royalty rates that best illustrate Morocco's effort to sustain an attractive environment in order to trigger and attract foreign investments in an oil-crisis world
- What kind of financing solutions are or can be made available to support investment initiatives?
- Highlighting the key regulatory points new entrants need to be aware of before entering Morocco

13:00

Discussions

13:30

Lunch Break

14:30

Presentation: Putting the regional oil and gas infrastructure on the map

- The Essaouira 160km pipeline network: assessing whether it's abundant and how it contributes to the total gas transportation network
- Extending the Gharb 158km pipeline network to accommodate current and future production and to further increase the transport capacity of the existing network
- Maghreb-Europe Gas Pipeline (GME)- what's next for the GME after 2020?
- Is a Modernisation plan of the existing refining installations in Samir realistic?
- Investing in Morocco's infrastructure: what infrastructure opportunities does the growth and development of the oil and gas industry present that could benefit other sectors, and vice versa?
- Reviewing new infrastructures that will support upcoming exploration and exploitation projects; What more is necessary and when?



15:00

Presentation by the Ministry of Energy: Gas to Power - An introduction to one of Morocco's most important projects to build an integrated plant to process gas to fuel the country's surging energy demands.

- How will Morocco, which depends on imports for almost all of its energy needs, plans to build a \$4.6 billion natural gas project?
- What are the timelines and tender procedures related to the project?
- Why should you invest in the project and what's the procedure?
- What does the 2,400MW capacity of power plants plan entail?

15:30

Presentation: Nigeria - Morocco gas pipeline

What is the route, the timelines, the costs and the opportunities you should be aware of?

Assessing the critical connection to regional and local pipelines and pipeline systems and its significance to Morocco, West Africa and consequently, Europe
Understanding the conditions necessary to guarantee the smooth implementation of the project

How Morocco's excellent investor confidence will be the driver to the project's successful funding and materialisation

Assessing the factors that make this Mega Project the optimal way to supply Europe and Morocco with abundant gas from Nigeria?

16:00

Afternoon Coffee Break

16:30

Presentation: Morocco's Energy Strategy

- What does the national energy policy entail? A detailed overview
- What are the Laws around it and what do they imply?
- How will Morocco increase the contribution of renewable energies to electricity production by 42% in 2020 and by 52% by 2030? Where does that leave the hydrocarbon sector in terms of synergies and priorities?
- Evaluating the different laws adopted to accommodate the national energy policy favorable to the development of renewable energies, in order to secure its energy supply in a context of strong growth in energy demand
- What is necessary to include in such a modern regulatory framework and why?



17:00

Panel Discussion: Morocco's closing Panel focusing on Strategies, Synergies, Lessons to be taken forward and the impact of the oil and gas industry in its energy strategy and economic bottom line.

- How Morocco's position as an economic gateway to Europe and the Mediterranean will reinforce the country's status of international hub for hydrocarbon investments
- A strategic position in the Atlantic and the Mediterranean Sea that could benefit the whole Moroccan hydrocarbon sector
- Morocco is part of the Euromed cooperation, a collaboration between the EU and 16 of its closest neighbours across North
- Morocco as a reliable African partner and authority to investors, IOCs, neighbouring and other African partners
- Morocco actively developing agendas to modernise its economy and improve its transparency, greatly proves the country's readiness to integrate a globalised market

17:30

Closing Comments by the Chair

18:00

Closing Comments by IN-VR

19:00

Entertainment Night



REGISTRATION FORM

2nd MOROCCO & WEST AFRICA OIL & GAS SUMMIT

6th-7th FEBRUARY 2019, MARRAKECH, MOROCCO



IN - VR
OIL & GAS

SALES CONTRACT

Please complete this form and email to: marketing@in-vr.co

Registration details

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Organisation _____
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VAT Number _____

Payment Method

CREDIT CARD

We'll contact you by telephone to collect credit card details.

Card Holder's Name _____
Last 4 digits of the card _____
Signature _____

* By signing I confirm I am the authorised signatory of the above card. I agree to IN-VR's Terms and Conditions and agree to IN-VR debiting my card.

BANK TRANSFER

* Payment terms within 5 working days

Fees

Standard Ticket: £1,795

Standard Ticket +Prearranged Meetings and access to the B2B meeting lounge: £1,945

Documentation: £300

Embassy Ticket: £400

(*Includes entry to conference sessions, documentation, lunches, refreshments, admission to networking social events. Payment is required within 5 working days)