

## “The Oil&Gas is a strategic sector, gas is crucial for the transition”

**Undersecretary Giorgetti opens the 2019 edition of OMC: “We can be the gas hub of Southern Europe.” The conference’s opening panel attended by Ciarrocchi (Eni), Benayoun (Edison), Cao (Saipem), El Regal (Egpc)**



“When we talk about energy, we need to make political choices that look to the future, in the middle- to the long-term” and from this perspective “it is clear that the upstream sector is of strategic importance for Italy.” undersecretary of the Prime Minister’s Office, Giancarlo Giorgetti, expressed this opinion when opening the 2019 edition of OMC, pointing out that “for a member of the government, perhaps it was easier to avoid such an occasion as this, due to the fact that recently the sector has been treated warily.”

“Without polemics,” specifies Giorgetti, “the design of the measures” which involved the sector “were subject of difficult political negotiations where the political side that I

represent wanted to emphasize the need to combine environmental protection with social and economic development.” In view of the preparation of PITESAI (the Plan of the Areas for Oil Activities) set forth by the “Simplifications” Decree, the undersecretary clarifies that the implementation of the measures should take place “while protecting the environment and without undermining the potential of this highly strategic sector.”

In this respect, Giorgetti explains that during his meeting with the sector’s representatives, he gathered proposals and suggestions “to bring to the decision-making tables” where the choices will be made

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“with an approach based on the common sense and balance, which should always suggest discussion and in-depth analysis on the issues relating to the sovereignty of the State.” “We cannot talk about the sovereignty of the State in the absence of energy sovereignty,” highlights the undersecretary, putting an emphasis also on the renewed geopolitical prominence of the Mediterranean, “also for energy-related reasons.” On this background, he continues, “Italy, situated in the centre of the Mediterranean, reacquires a geopolitical role that we need to be able to enhance and manage,” and “our country can legitimately aspire to create a gas hub for Southern Europe.”

“To achieve this, it is indispensable to continue the initiatives aimed to build gas transportation infrastructure connecting different countries. I refer, in particular to the EastMed,” affirms Giorgetti. He adds that “also in this case, as it very frequently happens with other infrastructure projects too, such important choices cannot be tainted by the prejudice. It is rather an assessment based on concrete elements and potential advantages for the entire country that should prevail.”

“It is necessary to overcome prejudice,” underlines the undersecretary, stating that “learning about production plants, entrepreneurs, the passion and the research in this sector, I became aware that it is a complex reality that needs to be looked at in depth. Only knowledge makes it possible to pass better laws.”

“Energy is a wide-ranging matter which is interrelated with other issues such as increase in domestic production, security of supplies and partnerships with the producing countries,” says Giorgetti, pointing out to the importance of the “policies favouring the broad use of technological progress” also in the field of environment and industrial activities “which applies especially to intense energy consumers.”

Moreover, Giorgetti acknowledges “a particularly important role the gas plays” in the energy transition, in the climate change action and the importance of diversification of the



sources to ensure “the energy security of the country.”

The undersecretary also focused on the potential of the area of Ravenna: “A centre of global excellence,” underlines Giorgetti, “that myself and the entire political side that I represent intends to stimulate to continue to be an international point of reference.”

Last but not least, the undersecretary mentioned the plan of investments of Eni for Italy, also for the future of the platforms, and Edison’s small-scale Lng project in Ravenna, with Lng considered as “an opportunity of diversification of the sources that can contribute to a reduction in the energy cost.”

Introducing the work, President of OMC, Innocenzo Titone, spoke about “great changes” brought about by the discovery Zohr, beginning with the creation of the East Med Gas Forum, and the crucial topic of this edition: energy as key to growth of the Mediterranean countries. In turn the City Mayor of Ravenna, Michele de Pascale, put an emphasis on the importance of Ravenna as technology centre, ready to “put its expertise” at the disposal of the community and the government.

The first panel of the conference was preceded by the speeches of

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CEO of Wood MacKenzie, Simon Flowers, and CEO of Oil and Gas Climate Initiative, Pratima Rangarajan. Flowers pointed out especially to “the brilliant future” of gas in the generation – which in the EU will see its emissions reduced by half between 2010 and 2040 – mentioning also the importance of the joint work of the governments and the industry to unlock the entire potential of the Mediterranean. In turn, Rangarajan highlighted the commitment of the companies of the Oil&Gas Climate Initiative. She referred to the investments and technology that contribute to the challenge of reducing the GHG emissions by half until 2040, while facing a 30% increase in the global energy demand. “For the ideas, the industry must look beyond its borders,” said Rangarajan, “we are always open to new ideas and cooperation.”

Then the panel discussion began. “The future poses us a double challenge that is to fight the climate change and render the energy accessible to billions of people who need it,” said Luigi Ciarrocchi, Executive Vice President for Italian Region of Eni, “and in order to achieve this, we must adopt an energy model which is sustainable both environmental and social terms.”

The discoveries in the Eastern Mediterranean, underlined Ciarrocchi, “will make it possible for the countries of the region to meet its demand, as it is in the case of Egypt, thanks to Zohr, and create the economic growth.” And with gas, he adds, it will be possible to add the renewables “which alone are insufficient to meet the energy demand.”

“The emissions must decrease, and the industry will know how to accomplish this goal,” underlined Ciarrocchi, “Ravenna in this respect is a model, is one of the main gas producers of the country, and at the same time it is a highly attractive tourist area, with 7 blue flag beaches and excellent food.” The Eni manager also described the Group’s technologies applied in the field of CO2 conversion and reuse, the circular economy and the waste to fuel: “all of them are breakthrough technologies.”

“The entirety of independent re-



searchers see a bright future for gas as an ideal complement for the renewables,” said CEO of Edison Marc Benayoun, who believes that “in Italy, we have to import gas from new routes.” “The EastMed is a key project,” said Benayoun, mentioning also Tap and TurkStream, prior to paying special attention to Lng “in which we were the first mover in the country.”

The CEO of Edison has given three guidelines that the company follows in its strategy for Italy: “Helping the clients to use energy in a more efficient manner, aiming at the facilities such as Marghera Levante that we will build with Ansaldo and the small-scale Lng projects such as that of Ravenna with Pir that will sell the products to ships and trucks, for which gas will become very important.”

CEO of Saipem, Stefano Cao, focused on the overall effect of Zohr on the Oil&Gas industry: “In order to understand its importance, it is sufficient to mention how the industry have gone astray in the previous period marked by high oil prices and the crisis caused by the fall in prices.” “With the drop in prices, the industry faced a shock and the cutting of the costs was reflected also in a very tough competition between companies and contractors,” explains Cao, “Zohr in turn is a symbol of a new paradigm deriving from a difficult model for the sector and in this respect I cannot fail to recognize the right choice of Eni and Egpc.” “The

approach to the project has changed completely,” underlines the CEO of Saipem, “now based on close cooperation, we work together to accomplish the goal which has clearly shown that adopting this type of approach leads to success.”

Cao also underlines that after the fall in investments in the past years “our commercial representatives receive more requests now and a great deal of projects are heading for the final investment decision.” Gas, he adds, “has a very solid basis for the future,” also in the form of Lng, “and we as Saipem will commit ourselves to offer our expertise also for the purposes related with the renewable sources.”

All the panel participants shared the opinion that Italy requires a “clear” regulatory framework to be able to plan future investments.

The panel was also attended by Ambassador of Libya to Rome, Omar Tarhouni, who encouraged the businesses to launch new projects in the country (“the situation is improving, and the oil production has returned to a level of 1.2 barrels per day), and CEO of Egpc, Abed Ezz El Regal, who pointed out to the importance of Zohr to make the country a gas exporter, while encouraging the countries of the region to “work together.” In this respect, he concluded, “the East Med Gas Forum is of crucial importance.”

**Federico Gasparini**



## “Innovation from Italy for a sustainable Mediterranean”

**Opportunities related to the decommissioning of offshore platforms. “The social aspects of investments also need to be considered”. Interview with Davide Crippa, undersecretary of Ministry of Economic Development**

The 2019 OMC edition focuses on “Expanding Mediterranean Energies: Fuelling Regional Growth”. How does Italy address this theme?

The Italian government is committed to a course of energy transition which involves all economic sectors in their entirety. Recently, we opened a dialogue on proposals for the 2030 Integrated National Energy and Climate Plan, a document to be prepared by the Ministry of Economic Development, along with the Ministries of Environment and Land and Sea Protection and of Infrastructure and Transport. The main objectives include, among others, the development of product and process technologies to speed-up energy transition, while favouring the environment during the implementation of such innovations. The Mediterranean is a natural extension of our country and it represents the core market for the technologies in which Italy excels. For the Mediterranean, transition means technological innovation. Thus, environmental protection must become a key element of every policy and this applies to both northern and southern coasts. The Ministry is constantly involved in the exchange of knowledge & expertise between national and international stakeholders. This is to share and possibly integrate different technological solutions, which can lead to a real change in the exploitation of the sea.

**You will attend the panel discussion “The future of offshore platforms: decommissioning and blue economy” organised by the Italian Ministry of Economic Development at OMC 2019 (March 29, 9:00 a.m., Tech Talks Zone Hall 4). The Ministerial Decree of February 15, 2019 set the guidelines for the decommissioning of offshore hydrocarbons production platforms. Which is the way to go for the decommissioning?**

The Decree of February 15 focuses on facilities at the end of their life cycle and introduces methods for the platform’s removal. These methods must be both safe and environmen-



tally friendly. The guidelines are the first step to accomplish one of the upstream sector’s energy policy targets. It consists of determining the best technologies available for the decommissioning of mining sites and offshore platforms. To be discussed at the conference, is The Blue Growth. It’s a possibility to put the decommissioned structures to best use (after making sure they are safe for new operators and for the future) in other areas of the energy sector (wave- and wind-power renewable energy, etc.). Or in other sectors such as aquaculture, which I believe is necessary due to the considerable fall in marine fish stocks. The decommissioning of mining sites, whether it’s removal or putting to new uses, is an important opportunity for high-tech jobs. Above all, though not exclusively, It can involve businesses based in the industrial area of Ravenna, where they specialise in new technologies, energy, and the production and distribution chain for both the blue and circular economies. Let us consider the amount of steel that can be recovered!

In regard to new technologies and renewable energy, I cannot fail to mention the expertise of companies currently supporting the oil activities. More than any other, they have the technological capacity and ability to create structures for offshore wind power, or offshore floating systems that can play a very important role.

**You will also attend the panel discussion “The development of advanced technologies: new business opportunities in the Mediterranean” (March 29, 11:00 a.m., Room A). What is the role of innovation in this sector?**

The offshore industry is mature now, but new growth opportunities can arise thanks to leveraging technological innovation, which in this sector can be applied in practice even today and can create whole new industry segments. As already mentioned, the sector is definitely at the forefront thanks to its technical expertise and investment capacity. Energy transition entails a challenge, namely the use of knowledge and financing toward a sustainable Mediterranean.

**One of the main topics at OMC has proposed in its different editions is promoting young people under the “Youth Programme.” What will be the future of the labour market in the energy sector in the light of the energy transition?**

One scenario, in which the energy mix is stable and relies on low environmental impact power sources, will entail an increasing demand for industry professionals who are able to optimise processes in terms of energy efficiency, zero emissions and low environmental impact as well as finding more and more innovative solutions, all while taking into account the complexity of interactions between technology and nature. If we think about the recent history of the Italian energy system, I wish there had been more consideration for the social aspects in the development of investments. These include public perceptions, dialogue and transparency. Also, the role of research centres and audit bodies must be recognised as an important element in the course of transition. It’s about a holistic approach that should not privilege only technology but ensure an overall understanding of the complexity of the sector. This is the key to the development of competences in the near future.

**Antonio Junior Ruggiero**

## Internationalization & capacity building for a sustainable business environment in Oil&Gas producing countries: Assomineraria's workshop

**Assomineraria** is the Italian petroleum and mining industry association, and represents the companies operating in Italy in the fields of mining of industrial minerals, exploration and production of oil and natural gas and geothermal fluids, natural gas storage, and the manufacturers and suppliers of equipment and services to the international value chain of the extractive industry. Over 120 companies highly committed to exporting world-wide the Italian expertise and know-how.

The mission of Assomineraria is to promote the development of companies working in this field, favoring innovation, competitiveness and efficiency, while supporting their action towards a better social and environmental context.

In its workshop on internationalization, today at OMC at the Delegate Restaurant, Assomineraria presents its commitment to partnering with Oil&Gas producing countries to develop local natural resources industry.

Assomineraria's project is addressing three major objectives: attracting more investments for producing natural resources in Oil&Gas producing countries; improving cooperation with the Italian industrial system and developing local capabilities and infrastructure for a long term sustainable development.

In order to launch the project, the association has developed a framework for value creation and generated a set of actions and initiatives fitting the needs of Mozambique, the first country studied by the experts involved. The effort is therefore aimed at, among other:

- establishing a legal framework which encourages the development of local infrastructure and the creation of an indigenous industrial capability — i.e., identifying concrete model of inclusion for local suppliers and workers;
- providing decision makers with proper instruments to select sustainable choices;
- facilitating the dialogue with stake-

holders in order to speed up a joint decision making and implementation of local infrastructure — i.e., executing technical review of projects to ensure bankability and developing partnership with international banks and in order to expand financing options;

- identifying criticalities and addressing areas for improvements towards the reciprocal adaptability of local and Italian legal frameworks, aiming at establishing coherent tax systems and contracting procedures;
- aligning quality standards, HSE standards and international transparency procedures with the requirements of international companies;
- improving logistics and communications and Facilitating cultural exchange;
- supporting the adequate education and training of local skilled labor;
- sponsoring innovation in the natural resources extraction in partnership with local companies and institution — i.e., establishing a Technology Park in partnership with local



companies, with a plan for joint investment in innovative technologies.

All of the initiatives of this project are based on the competences and know-how from companies of the extractive industry value chain, as Assomineraria and its associated members can support all axes of value creation.

### “The Mediterranean pivotal to European energy security”

#### *The Nicosia Declaration of the 5th South EU Summit*

Energy was one of the main theme of the Nicosia Declaration, the joint statement issued on January 29th after the 5th South EU Summit.

The Summit took place in Nicosia and brought together the heads of State of France (Emmanuel Macron), Italy (Giuseppe Conte), Greece (Alexis Tsipras), Malta (Joseph Muscat) and Cyprus (Nicos Anastasiades), along with the Foreign Affairs minister of Spain (Josep Borrell), in representation of prime minister Pedro Sanchez.

In particular, the Nicosia Declaration recognises that “the Western and Eastern Mediterranean region is a strategic corridor for gas supplies and electricity through gas infrastructures such as the EastMed pipeline, thus contributing to the Union’s policy for diversification of sources, suppliers and routes, as part of the Union strategic energy security policy that also demands better interconnections among its Member States and in the Western Mediterranean and Atlantic regions”.

The six countries thus recalled “the EU’s energy security strategy, especially in the Eastern Mediterranean”, and reiterated their commitment to “ensure the continued involvement of European companies in the area”.

The Nicosia Declaration underlined that “the goal of energy security remains of paramount importance”, as the Governments of France, Italy, Greece, Malta, Cyprus and Spain “remain committed towards completing our Energy Union, in particular a fully integrated and interconnected European energy market”.



## Oil&Gas, innovation paves the way for new markets

*Renzo Righini, Sole Director of Fratelli Righini: "Investments in automation are crucial"*

Research and innovation are increasingly important in the upstream sector. What activities has Fratelli Righini undertaken in these fields?

We have been investing, above all in the technological development of systems in order to increase the level of automation in our operations. These efforts go all the way through from the initial phase of design to the final stages of production. We are committed to closely integrating all phases of the company's activities.



sector could be extremely important for the growth of this South American country. We also look to Australia where investments are starting to take shape, there are several important projects that should begin this year.

**What do you think about the evolution in the energy mix regarding fossil fuels and renewables?**

**The Oil&Gas industry is going through great changes worldwide. What geographical areas, in your opinion, have the most potential?**

As we operate globally and our services and solutions are acquired by companies across the world. I would say, there are still great opportunities in the entire African continent. Also, Brazil offers interesting prospects as such a large producer. There was a time when, due to both the low level of oil prices and a very unstable political situation, investments in Brazil's Oil&Gas sector came to a halt. Now, new possibilities are opening up. The political situation has changed and investments in the energy

This issue is mainly seen in Europe which has been making great efforts towards decarbonisation. Due to this, the Oil&Gas sector of today pays the utmost attention to the environment. With relation to the situation in Italy, the course towards energy transition needs to be managed realistically. We must consider the importance of domestic energy production to ensure the security of supply and sourcing, also to respect the value, the competences and the workers employed in the upstream sector. In this phase of transition, I believe the role of gas as a "bridge" to accompany the energy transition has now been widely acknowledged, and not only by the companies operating in the sector.

G.T.

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## Not only an area of production: Central Mediterranean for energy transition

*Interview with CEO of DG Impianti, Michelangelo Tortorella*

**The subject of this year's OMC is "Expanding Mediterranean Energies: Fueling Regional Growth." What are the growth prospects for the sector in this area?**

Certainly the Mediterranean region is a strategic centre of the Oil&Gas industry, this is due to the presence of established producers and for those who are joining the market as of now, that is: Cyprus, Israel and in the near future Lebanon. The Mediterranean will continue to play a crucial role but not only for production, also as a junction for oil and gas transition along the pipelines that connect North Africa with Europe.

**After the price fall in 2014, the barrel now appears to have stabilized at around 70 \$/b. How has this trend changed the oil industry in recent years?**

The fall in oil prices caused constraint in oil companies and for oil ser-

vices to align costs with the current price per barrel, revising their production systems by applying different logic, philosophies and technology. The energy market required a fundamental transformation through a new vision for the implementation of increasingly innovative, complex and challenging projects, these goals supported by a model taking full account of quality, time and costs.

**A key aspect for the upstream industry is sustainability. What are the main progress made in this field?**

Thanks to developments in technology the energy sector is now less expensive, cleaner, safer and more diversified than it was ten years ago. Thus, the concept of sustainable development has been implemented over the last twenty years and it remains a crucial issue for the entirety of oil companies and, above all the whole production and distribution chain of the oil sector.

**Which will be the role of the Oil&Gas industry in the energy transition?**

The further ahead we think, the greater the changes will be in aspect of diversification of energy production all over the world. This process is partly taking place spontaneously, driven by cost-effectiveness and technological progress, and partly by political decisions. However, decarbonisation will not be a process that will end in the short or middle term.

**What kind of research and activities will DG Impianti focus on in the coming years?**

DG will strengthen its know-how and production methods in the area of engineering and project management services with the aim of supporting the "DG Project" focused in the market of Fast Track EPC – Engineering Procurement Construction. We will apply our know-how to diversify as much as possible within the market segments where DG Impianti operates, paying particular attention to renewable energy. In the field of research we will in turn develop new digitalization systems and smart equipment for the production of electricity.

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## EU project “North Sea Solutions for Innovation in Corrosion for Energy” at OMC 2019

*The Italian company ASTER is a partner of the initiative  
Three demonstration sites for renewable energy power plants*

One of the main problems that designers and operators of offshore plants need to deal with is the corrosion of materials. There are numerous techniques to remedy these issues and the sector of scientific research is continuously working on more and more innovative solutions.

The European project NESSIE, North Sea Solutions for Innovation in Corrosion for Energy, co-financed by the European Maritime and Fisheries Fund (EMFF), works towards these solutions.

OMC 2019 dedicates a workshop to this initiative entitled “Offshore Renewable Energy: Emerging Opportunities for the Offshore Industry” (March 29, 9:00 a.m., Room D), organized by ASTER, an associated company for innovation and technology transfer of the Emilia-Romagna Region.

“This project, the Vanguard Initiative is the outcome of cooperation among a network of European regions continuing over a long period of time. Its aim is to facilitate collaboration among the regions for the development of new innovative technological solutions,” explains Stefano Valentini of ASTER.

“ASTER is involved in a great deal of projects, including advanced manufacturing for hostile environment applications.” Within the Network of Regions, we are part of a

subgroup which focuses on this sector and it is coordinated by technological leaders within the scope of these applications (Scotland and the Basque Country). In this context, adds Valentini, “NESSIE proposes the development of three demonstration projects on offshore renewable energy, including not only wind power, but also wave and tidal stream energy. We focus on the improvement of performance of these plants with solutions for creating anti-corrosion materials as it is a particularly relevant topic in our country also.

The partners of NESSIE include Scottish Enterprise (Scotland), Basque Energy Cluster (Spain), Sirris (Belgium), Svenskt Marintekniskt Forum (Sweden), the University of Edinburgh (Scotland), Fundación Asturiana de la Energía (Spain) as well as the Lombardy Energy Cleantech Cluster and ASTER based in Italy.

It is a very important project, especially if you consider that “in the next two years Europe can increase the capacity of sea power plants from the present 15 GW to 25 GW,” emphasizes ASTER’s representative. That is why “there is a clear focus of the industry on this matter and it is in our best interest to help our businesses seize these opportunities.”

In further details, the NESSIE

initiative seeks to determine anti-corrosion technologies that can be applied to different types of offshore renewable energy plants. In the beginning, there was issued a call for expression of interest for the companies operating in that field, “in order to exchange expertise on the matter of corrosion,” Valentini continues. After that phase, “three leader companies” were selected. They include Simec Atlantis Energy, SSE and the European Marine Energy Centre (EMEC). “We are working together to create a value chain, involving the businesses based in Emilia-Romagna and those that are part of the European partnership in order to carry out the three demonstration projects.”

The following speakers will talk at workshop “Offshore Renewable Energy: Emerging Opportunities for the Offshore Industry” – Renata Archetti (University of Bologna), Noor Van Velzen (University of Edinburgh), Francesco Matteucci (ASTER), Jan Reid (Scottish Enterprise), Andrea Alessi (ENI) and moderator Stefano Valentini (ASTER).

Under OMC 2019, ASTER, through the Enterprise Europe Network, has also cooperated in the organization of the B2B events.

A.J.R.



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## ▶ PROGRAM - THURSDAY 28<sup>th</sup> MARCH ◀

### 9.00 - 10.40 Technical Sessions

#### Digital oil field (Room A)

- ▶ Well head compressor telemetry system: a new digital approach
- ▶ Development of an object-oriented framework to automate subsea pipeline design
- ▶ Challenges in implementing the digital oil field. A real-world look at data retrieval, storage and efficient utilization
- ▶ Cybersecurity verification approach for the Oil&Gas industry

#### Modelling (Room B)

- ▶ Horizontal well placement in challenging complex reservoirs using automatic stochastic inversion for multilayer reservoir mapping technology
- ▶ Robust screening of the development strategy for an undrilled deepwater prospect
- ▶ Flexible integrated asset models for deep water developments
- ▶ Avo seismic inversion in hydrocarbon detection and characterisation at Simian field offshore Nile Delta

#### Innovation (Room C)

- ▶ Laboratory equipment to study differential pressure sticking and drill string release mechanism
- ▶ Shape memory polymer: validation of lab testing protocol for field application design – a case history
- ▶ Innovative casing valve with Rfid activation
- ▶ Fibreglass liner in production and water injection wells: Eni experiences and feedback

#### Managing the environmental footprint (Room D)

- ▶ A new method for measuring regional seabed subsidence with sub-centimeter accuracy
- ▶ Analysis and comparison of different solutions for produced water management - Lca and biodiversity impact assessment
- ▶ Reducing the CO2 emissions through selection of energy efficient artificial lift method
- ▶ Marine Vibroseis: a reduced environmental footprint for seismic exploration

### 9.30 - 10.10 Posters Session

#### Offshore (Digital Poster Arena - Hall 2)

- ▶ Neptune - Riser shape monitoring system
- ▶ Innovative connection system to facilitate subsea modules connection in complex subsea facilities
- ▶ Produced water deoiling: an “unconventional” application of civil water treatment methods to Oil&Gas offshore environments
- ▶ Protection of corrosion of carbon steel with core-shell inorganic magnetic nanogels in formation water
- ▶ 3D turbidite forward modelling approach for de-risking submarine facilities monitoring and installation

### 09.30 - 11.00 Tech Talks

- ▶ From digital twin and construction to cyber security. Are you ready for this journey? (Tech Talks Zone – Hall 4)

### 10.30 - 17.30 Youth @ OMC 2019

- ▶ Fuelling the future professionals (Arena - Hall 4)

### 11.00 - 12.45 Panel Discussions

- ▶ East med gas potential: additional reserves to be found and exploited? (Room A)

### 11.00 - 12.45 Technical Sessions

#### Geosteering and Lwd (Room B)

- ▶ High-resolution Lwd acoustic borehole imaging in Wbm and Obm
- ▶ Landing and geosteering in single drilling phase in Complex Gulf of Suez reservoir using innovative combination resistivity technologies with multiple depth of investigation with cost effective solutions, Petrobel (Eni)

- ▶ Long-term case study of the successful implementation of continuous circulation drilling technology in the Mediterranean
- ▶ H2S detection while drilling: a new approach
- ▶ Realistic scenario drilling simulation for deep and critical wells

#### Path to decarbonisation (Room C)

- ▶ Application of wave energy converter technology to subsea power requirements and asset integrity in oil and gas field developments
- ▶ An economic approach for carbon capture and storage
- ▶ Using natural gas and solar power in the path of decarbonisation
- ▶ Oil companies and the transition to a low carbon future overview and opportunities

#### Sustainability of Oil&Gas activities (Room D)

- ▶ Modelling and monitoring gas dispersion in an Oil&Gas platform: project definition and design of a validation experiment
- ▶ Fuelling regional growth: still a dream or a concrete possibility?
- ▶ An innovative approach for portfolio analysis and investment decisions in the Oil&Gas industry
- ▶ Agile model for measurement of stockholders' performance in Epc companys in the context of sustainability

### 11.10 - 11.40 Posters Session

#### Exploration (Digital Poster Arena - Hall 2)

- ▶ Source rock potentiality, basin modeling, and oil to source correlation in northern Shushan Basin, Western Desert, Egypt
- ▶ Improving seismic resolution for thin-reservoirs delineation – a comprehensive review
- ▶ How to understand reservoir heterogeneity by using stochastic geomodel: case study from Sequoia Field, offshore Nile Delta, Egypt
- ▶ The impact of depositional facies control and reservoir characteristics in The Middle Abu Roash “G” Sandstones on reserve estimation, East Abu Sennan concession, Western Desert, Egypt (East Abu Sennan Discovery and Challenges)

### 11.30 - 13.00 Tech Talks

- ▶ Lloyd's Register: innovation for the future (Tech Talks Zone – Hall 4)

### 12.00 - 12.30 Posters Session

- ▶ Gas valorisation (Digital Poster Arena - Hall 2)
- ▶ Efficient integration of natural gas valorization systems in existing Oil&Gas production sites
- ▶ Natural gas distribution network powered by regasified Lng as development of the distribution system in Italy: technical scenarios and tariff rates
- ▶ An insight into a multi-seller/multi-buyer system for producing Lng from a commingled gas stream with various gas specifications
- ▶ Opportunities and constraints for a small-scale Lng development in the Mediterranean sea: exploit experiences to apply locally

### 14.00 - 15.30 Tech Talks

- ▶ The first years of implementation of offshore directive in Italy (Tech Talks Zone – Hall 4)

### 14.30 - 16.05 Technical Sessions

#### Big data analytics (Room A)

- ▶ Next generation inspection (Ngi): digital tools to bring value along the project value chain. Early experiences and results with remote inspections and data mining
- ▶ Big data advanced analytics to forecast and optimize energy efficiency in upstream production plant
- ▶ Advanced analytics to maximize operations continuity and optimize the asset value: the fouling real example
- ▶ Paving the way for the next digital revolution: using quantum computer to solve optimization problems in the energy sector ▶

## ▶ PROGRAM - THURSDAY 28<sup>th</sup> MARCH ◀

- ▶ Innovative offshore development schemes 2 (Room B)
- ▶ Spectrophotometrical monitoring system, integrated in an autonomous underwater vehicle, for continuous heavy metal detection near offshore sites
- ▶ Use of Polyurethane Insulation technology as an enabler for integrated systems
- ▶ Use of spoolable reinforced thermoplastic pipes for oil and water transportation
- ▶ Hybrid and composite risers for deep waters and aggressive reservoirs
- ▶ Qualification of a local heating system for flowlines

### Reservoir monitoring & surveillance (Room C)

- ▶ 4D gravity and seafloor subsidence surveys for cost-effective monitoring of offshore gas reservoirs
- ▶ Downhole well monitoring: innovative technologies in challenging environments
- ▶ Using high resolution temperature data in appraisal wells to identify the reservoir conditions that can lead to condensate blockage
- ▶ Development of formation damage diagnosis workflow, application on hammam faraun reservoir: a case study, Gulf of Suez, Egypt

### Gas valorisation (Room D)

- ▶ Gas monetization technology mapping
- ▶ Performances of novel technologies for the exploitation of CO<sub>2</sub>-rich natural gas reserves
- ▶ An optimized and intrinsically safe solution for Lng production and distribution in the Mediterranean area
- ▶ Sulfur removal on an Fps0 – a liquid redox process case study

### 14.40 - 15.00 Posters Session

#### Production (Digital Poster Arena - Hall 2)

- ▶ Nanoemulsions as innovative spacers for cement packer applications in offshore production optimization
- ▶ Predicting Pvt properties using multivariate data analysis of optical spectra
- ▶ Profinet: a safe, secure and an open communication solution for process industries

### 15.10 - 15.30 Posters Session

#### Asset integrity (Digital Poster Arena - Hall 2)

- ▶ Clean sea platform: development of a seabed environmental guard e-pod
- ▶ Machine learning application in jacket life extension
- ▶ Assessment of the impact of underwater works and anode removal on the cathodic protection status of an offshore platform through Fem modelling

### 16.00 - 17.30 Tech Talks

- ▶ Tempa Rossa 4.0 - spotlight on robotics and digital transformation (Tech Talks Zone – Hall 4)

### 16.00 - 18.00 Workshop

- ▶ Assomineraria - internationalization & capacity building for a sustainable business environment in Oil&Gas producing countries (Delegate Restaurant)

### 16.25 - 18.05 Technical Sessions

#### Machine learning and artificial intelligence (Room A)

- ▶ A novel machine learning-based support tool for source rock identification from biomarkers data: theory and case studies
- ▶ How machine learning educates intrinsic petrophysical knowledge from legacy data: a case history from a mature field
- ▶ Digital oil field multiphase flow prediction tool
- ▶ Prediction and prescription of operation Upset in H<sub>2</sub>S gas sweetening unit: implementation of an innovative big data analytics procedure

#### Blue growth (Room B)

- ▶ New pendular floater for offshore wind commercial farms
- ▶ Strategy to comply with Offshore Directive No. 2013/30/EU: The Italian case
- ▶ Mediacanes, Mediterranean hurricane eyewall winds action on offshore wind turbines
- ▶ Filling the gaps: a case study of a Red Sea coastal and marine biodiversity baseline study

#### Reservoir characterisation (Room C)

- ▶ Calculation of lithology specific P-wave velocity relations from sonic well logs for the Po-plain area and the northern Adriatic Sea
- ▶ Reservoir mapping with deep directional E.M. tool in slim hole. The first application in Italy on a complex carbonate reservoir
- ▶ Impact of hysteresis on relative permeability in hydrocarbon migration
- ▶ Permeability prediction using Nmr measurements for some gas reservoirs – Nile Delta, Egypt
- ▶ The roadmap for additional gas production in thin layered and low porosity reservoirs: multi detector pulsed neutron findings integrated with open-hole measurements

#### Completion & wear (Room D)

- ▶ New concept for multiaxial fatigue rigs in reconstructing combined loads to investigate fatigue life of casing connections in casing drilling applications
- ▶ Permanent installation of capillary string in 2-7/8" tubing size
- ▶ Wear, a drilling fluids discussion and case history
- ▶ Degradable balls; a successful approach towards the optimization of multistage completion operations

### 16.40 - 17.10 Posters Session

#### Mediterranean development (Digital Poster Arena - Hall 2)

- ▶ Use of ultra-low fluid invasion additive to improve wellbore stability, strengthen wellbore and eliminate differential sticking - case histories from Kuwait
- ▶ Case histories from Kuwait to drill commingle Zubair shale sand sequences by using customized high performance water base fluid
- ▶ Viscoelastic water-based drilling fluid minimizes formation losses while drilling of shallow carbonate sections in Southern Europe
- ▶ Case history: a comprehensive approach to lifting management

