



## AGENDA OVERVIEW

### THE NEW ENERGY PARADIGM: PATTERNS TOWARDS THE FUTURE

#### WEDNESDAY 11th MARCH 2020

09.00	Registration
<u>09.30 – 10.00</u>	Welcome Addresses – Chairman REM, Mayor of Ravenna Keynote Speech – Stefano Patuanelli, Minister of Economic Development
<u>10.00 – 13.00</u>	<b>NEW STRATEGIC PRIORITIES FOR THE ENERGY INDUSTRY</b>  <i>Setting the scene: DNV presenting the "Annual Energy Transition Outlook"</i> Sverre Alvik, DNV GL Project Director, Energy Transition Outlook

*DNV GL has been closely tracking senior energy professionals' confidence, sentiment and priorities over the past decade, gathering and sharing unique insights into the challenges and opportunities that the sector expects to face each year. The Energy transition Outlook is the DNV research on what lies ahead for the sector will be presented and shared with the audience.*

#### **Panel Discussion: Companies Strategies**

*Chairperson: to be appointed*

##### *Invited Companies:*

- ENI – "Eni's decarbonization strategy and Vision 2030: 10 priorities over the next 10 years" – *Stefano Maione, Chief Development, Operations & Technology Officer*
- SHELL – Company vision on energy transition - *Massimiliano Mannino, Director Shell Energy*
- OGCI - "Net Zero Teesside District" – *Colin McGill, BP Appraisal General Manager*
- SAIPEM – The energy transition strategy of the company – *Fabrizio Botta, Global Strategy, Commercial and Tendering - E&C Onshore Division*
- BAKER HUGHES – "BH energy transition strategy: Solutions to decarbonisation – How BH products and services reduce customer's carbon footprints for their operations, projects and products" - *Daniela Abate, New Energy Solution and Downstream Director*
- ROSETTI MARINO GROUP – „Rosetti Marino's vision to 2030: Innovation, sustainability and capability to connect new technologies and plant solutions for forwarding energy transition" - *Oscar Guerra, Managing Director*

#### **DNV Energy Transition Outlook focus on the Mediterranean Region**

Fabio Maria Lo Brutto, DNV GL Country Manager

*Lunch break*



14.30 – 18.00

**Energy Patterns towards the Future**

*The panels will debate the different routes to make available a sustainable energy in the future: technologies to convert organic and inorganic waste into energy products, new processes and products utilising recovered waste plastics, transforming them into secondary raw materials, decarbonization strategy with the deployment of new technologies aimed at capturing and using carbon emissions, the zero emission sources, such as solar, wind and hybrid systems, the digitalization that can help to create new opportunities for integrated solutions where efficiency and renewable energy work together.*

Chairperson: *Giambattista De Ghetto, Professor Energy Department at Politecnico di Milano*

**Key note speech**, *Andrea Bianchi, Director Industrial Policies Confindustria*

**Panel 1. New energy products and Environmental solutions**

*The panel will discuss different available technologies for the conversion of organic and inorganic waste into energy products, new processes to transform a traditional refinery scheme into a bio-refinery, technology solutions aimed at producing biomethane from biogas and at re-using waste water.*

**Invited companies:**

- *Eni* – Monica Spada, Senior V.P. Bio Development, Sustainable Mobility and Circular Economy
- *Intesa Sanpaolo* – Massimiano Tellini, Global Head - Circular Economy at Intesa Sanpaolo Innovation Center
- *Enea* – Roberto Morabito, Head of Circular Economy Department
- *NextChem* - Annarita Salladini, Senior Process Engineer
- *Caviro Extra* – Alberto Bertoni, Head of New Projects
- *HERA Group* - Enrico Piraccini – Development and Innovation Technology Manager

**Panel 2. Chemical Sector**

New recycling technologies, Chemistry from renewables

*Chemical conversion routes offer the possibility to transform waste materials into high value-added products: for this reason, the chemical industry is key to unlock all the potential of the Circular Economy paradigm.*

*The panel will present experiences from various industries, from novel technologies as well as a fresh perspective on the market potential of the green chemical sector.*

*The discussion will also focus on the potential of the Circular Economy model applied to the transformation of the current business models of the industry.*

**Invited companies:**

- *Versalis* – Alessandra Colombo - Head of Circular Economy, Sustainability and Product Stewardship
- *NextChem* - Barbara Masciocchi, Senior Process Engineer, Agnese Cicci, BIO-P Manager R&D
- *Saipem* – Paolo Carrera, New Energies Head of Commercial and Tendering
- *Spring* - Italian Cluster of Green Chemistry - Mario Bonaccorso, Cluster Coordinator



- **CO.RE.PLA – Antonio Protopapa, R&D Director \***

16.30 – 16.45 Coffee break

**Panel 3. Zero Emissions**

*Wave Energy, Solar and Wind Power, OPV – Organic Photovoltaics, Smart Windows, CCUS: Algal Bio-fixation and CO2 Mineralisation, Energy Storage*

*In order to cope with the low carbon emission scenarios, current technologies are not sufficient to meet, in a sustainable way, the ever increasing energy demand.*

*However, technology innovation is rapidly bringing to the demonstration phase a broad array of zero-emission energy technology, which promise to become profitable in the near future.*

*The panel will present technology options and their recent field applications in the area of marine renewables, new generation photovoltaics, CO2 capture and energy storage.*

**Invited companies:**

- *Eni*- Luca Cosentino, Executive V.P. Energy Solutions
- *Baker Hughes* - Andrea Calderaro, Energy transition platform Manager
- *OGCI* - Colin McGill, BP Appraisal General Manager
- *Saipem* - Francesco Balestrino, Renewables and Green Technologies Business Development Manager XSIGHT Division

**Panel 4. Digitalization in the energy transition**

*The role of the digital in the energy transition, for traditional sources and for new sources, Energy efficiency, Emission reduction*

*Digital revolution is one of the current and future mega-trends which will transform the way societies function today, impacting virtually every sector.*

*Digitization is also rapidly transforming the energy industry by increasing safety- through drones and robots- plant efficiency, through sensors and new machine learning algorithms.*

*In addition, high power computing is paving the way for exponentially increasing the power of data interpretation, in fields as diverse as smart cities management and oil & gas exploration.*

*The panel will focus on the role of digitalization in accelerating energy transition towards a low carbon future.*

**Invited companies:**

- *Eni* – Luigi Lusuriello, Chief Digital Officer
- *Boston Consulting Group* – Marco Tonegutti, Managing Director & Senior Partner
- *BI-Rex (Competence Center 4.0)* – Stefano Cattorini, General Manager
- *NextChem* – Michele Colozzi – V.P. Technology Development and Licensing

18.00                      *Conclusions*

*\*pending confirmation*

20.00 *Networking dinner*



THURSDAY 12th MARCH 2020

**09.00 – 11.00 The transition path in the Mediterranean Area – Innovative Network for Future Energy**

*The Mediterranean region is at a cross-roads of civilizations and is made up of countries with varied economic, political and cultural profiles. The rapid development of Southern and Eastern Mediterranean countries leads to a significant increase of energy demand which is changing the economic and energy landscape of the Region. Today almost 80% of the region's renewable energy supply is in the Northern countries. Of the remaining 20% in the Southern and Eastern countries, 73% refers to Turkey. According to OME, around 3 trillion euros will be needed between 2018 and 2040 to cover all the Mediterranean energy investment needs. Technological innovations and new financing methods are making renewable energy more accessible than ever before.*

**Setting the scene: The transition path in the Mediterranean Area**

Manfred Hafner, Professor FEEM, John Hopkins University

**Invited Speakers:**

1. Renewable energy perspectives in Southern and Eastern Mediterranean countries: challenges and opportunities – *Rabia Ferroukhi, IRENA, Director of the Knowledge, Policy and Finance division*
2. Blue circular economy in the Mediterranean: initiatives and projects -*Enrico Granara, Plenipotentiary Minister, Coordinator of euro-Mediterranean Affairs, Ministry of External Affairs*
3. Technological trajectories to sustain the transition in the Mediterranean- *Roberto Cimino, Chairman, Technology Cluster Blue Italian Growth*
4. Transition in the Mediterranean: cross-linking energy and non energy components – *Grammenos Mastrojeni, Union for the Mediterranean Deputy Secretary General for Energy and Climate*
5. Technology innovation to promote a sustainable regional development plan – *Piero Salatino, University of Naples Federico II – (CNR Metaponto, University of Basilicata, ENEA Trisaia)*

**11.00 – 11.15 Coffee break**



**11.15 - 13.00 Initiatives to promote a cultural change and contribute to foster a circular productive system – The Role of the Associations**

*Chairperson:* Davide Tabarelli , Chairman Nomisma Energia

**Introduction:** Can we quantify Energy Transition? - *Arrigo Vienna, Technical Director Energy Transition at SPE Italy*

**Invited Associations:**

- *ANEV - The new energy pattern: how ANEV is fostering the culture of Renewables - Simone Togni, Chairman*
- *ANIE Rinnovabili – Alberto Pinori, Chairman*
- *ANIMP - The Sustainable Production Chain Paradigm - Antonio Careddu, Chairman*
- *Assomineraria - Luigi Ciarrocchi, Chairman*
- *Coldiretti – Ettore Prandini, Chairman*
- *Confindustria Energia - Giuseppe Ricci, Chairman*
- *Elettricità Futura - Simone Mori, Chairman \**

*\*pending confirmation*

*Lunch*

**9.30 – 18.00 Workshops and presentations @ Live Demo Arena (free access)**