

# A LOW CARBON ENERGY FUTURE:

challenges for governments and industry

3<sup>rd</sup> EDITION

**rem**  
Renewable Energy  
Mediterranean  
Conference & Exhibition

**9/10 MARCH 2016**  
Ravenna, ITALY

Venue:  
Grand Hotel Mattei,  
Ravenna



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## A LOW CARBON ENERGY FUTURE: CHALLENGES FOR GOVERNMENTS AND INDUSTRY

World energy demand is expected to increase in the decades to come, but at the same time, climate change challenges call for a substantial reduction in CO<sub>2</sub> emission to reach the target of keeping average temperature increase within 2°C. Satisfying increasing energy demand while decreasing CO<sub>2</sub> emissions is one of the major challenges the world will have to face in the next future.

**REM 2016 will discuss the general framework for CO<sub>2</sub> emissions reduction, presenting the emerging technology solutions to contribute to a more sustainable and responsible use of energy.** From one side to respond to the general public concern and worries on this critical issue, national and international Authorities are introducing directives, regulatory tools and fixing targets (40-70% CO<sub>2</sub> reduction by 2050 and 100% by year 2100) in order to avoid reaching a non turning point in the climate change.

Promoting technologies for CO<sub>2</sub> utilization through its conversion into useful end-use products, for CO<sub>2</sub> storage and for enhancing energy efficiency in the overall industrial chain are some of the actions the industry is already taking to ensure a greener use of energy. The development of an important energy district starting from 1960 through the presence of eni has secured Ravenna with an international reputation as the Energy Centre of the Mediterranean Northern shore and it has produced a decisive springboard effect in the development of the a wide energy industry.

**The Emilia Romagna Region offers a large range of opportunities through energy programmes** that place the renewable energy sector and the energy efficiency developments at the heart of the region's general policy for the development of businesses, communities and families.

The energy industry is now stronger than ever in this region and it is turning towards new sound energy efficiency policies and the benefits of their implementation.



# REM 2016 CONFERENCE PREVIEW

9-10 MARCH 2016, RAVENNA, ITALY

## DAY ONE - WEDNESDAY 9<sup>th</sup> MARCH 2016

09.00 – 9.30

**Welcome Address:**

**INNOCENZO TITONE**, Chairman REM 2016

**Opening Addresses:**

**FEDERICA GUIDI**, Ministro per lo Sviluppo Economico\*

**STEFANO BONACCINI**, Presidente Regione Emilia Romagna\*

9.30 – 11.15

**CLIMATE CHANGE SCENARIO: POLICIES, SCIENTIFIC OUTCOMES AND THEIR ECONOMIC EFFECTS (1/2)**

**Keynote Speech: Towards a low carbon future: policies and scenarios after COP-21**, Carlo Carraro, Direttore Scientifico FEEM

**1. Franco Terlizzese**, Direttore Generale MISE

**2. Maurizio Pernice**, Direttore Generale per il Clima ed Energia, Ministero dell'Ambiente

**3. Energy intensity trends across EU countries: implications for future energy demand**, Carlo Bollino, Presidente AIEE

**4. The role of the energy industry in the climate change scenario**, Davide Tabarelli, Presidente Nomisma Energia

**5. Wind Energy Support for a low carbon energy future**, Davide Astiaso Garcia, Segretario Generale ANEV

**6. Synergies through a gas transition era: the renewables and their impact on our economy**, Pietro Cavanna, Presidente Settore Idrocarburi, ASSOMINERARIA

11.15 – 11.30 Coffee Break

11.00 - 13.00

**Special Workshop Session by**

**IPC – INDUSTRIAL PLANTS CONSULTANTS**

**PROTEO – Advanced control, diagnostic and protection system for centrifugal pumps: Energy saving and environmental impact reduction**

11.30 – 12.45

**CLIMATE CHANGE SCENARIO: POLICIES, SCIENTIFIC OUTCOMES AND THEIR ECONOMIC EFFECTS (2/2)**

**Chairperson: Paolo Carrera**, Saipem

**1. Moving to the future low carbon energy through CO2 utilization**, G. Iaquaniello, KT, G. Centi, Università di Messina

**2. CO2 Utilisation for the transition from linear to a circular c-economy**, Michele Aresta, IMM Chair, ChEB Department, NUS, Singapore

**3. Energy and climate planning: the role of analytical tools and models to support decision making process**, Monica Salvia, CNR – IMAA

**4. Protecting Deep Sea**, Roberto Danovaro, Università Politecnica delle Marche

**5. Novel modular reactor technology for CO and CO2 hydrogenation**, Carlo Giorgio Visconti, Gianpiero Groppi, Luca Lietti, Enrico Tronconi, Politecnico di Milano

13.00 – 14.30 Lunch break

14.15 – 16.00

**CLIMATE CHANGE SCENARIO: THE CONTRIBUTION OF THE OIL&GAS INDUSTRY**

**Chairperson: Rosanna Fusco**, eni

**1. Challenges for oil & gas Industry in the new Climate Change Scenario**, Giambattista De Ghetto, eni

**2. CO2 management** Wilfried Maas, Shell

**3. CO2 sequestration: Total pilot experience in Lacq**, Dominique Copin, Total

**4. Edison's integrated approach to sustainable growth**, Claudio Serracane, Edison

**5. Producing with zero emissions: a new design of gas treatment plant**, Diego Mezzadri, Appenine Energy

**6. Oil and agriculture coexisting in Sicily**, Antonio Pica, Irminio

16.00 – 16.15 Coffee Break

16.15 – 18.45

**SCIENTIFIC AND TECHNOLOGICAL APPROACHES, CASE HISTORIES FROM THE ENERGY INDUSTRY (1/4)**

**Chairperson: Michele Aresta**, IMM Chair, ChEB Department, NUS, Singapore

**1. CCS Technology: Capabilities of a Global Contractor**, Ivano Miracca, Mario Marchionna, Saipem

**2. GE O&G technological approach to gas utilization as "clean fuel" for ground and marine transportation either in Compressed or Liquefied phase**, Alberto Rostagno, Cesare Sordi, GE

**3. Zero impact Thermal energy with CSP Fresnel mirrors: CSP-F an all Italian start-up**, Giovanni Locanto, CSP-F SOLAR

**4. Concentrating Solar Power: applications and opportunities**, Tamara Passera, Lino Carnelli, Carla Lazzari, eni

**5. EGP Integrating renewable power plants with energy storage: from first pilots to new business opportunities**, Luigi Lanuzza, Riccardo Amoroso – Enel Green Power

**6. Medium and Large Energy Storage plants: LAES (Liquid Air Energy Storage) and CAES (Compressed Air Energy Storage)**, Andrea Burrato, GE

\* to be confirmed

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## DAY TWO - THURSDAY 10<sup>th</sup> MARCH 2016

09.15 – 10.45

### SCIENTIFIC AND TECHNOLOGICAL APPROACHES, CASE HISTORIES FROM THE ENERGY INDUSTRY (2/4)

Chairperson: Gaetano Iaquaniello, KT

1. **Enipower contribution to a low carbon future in District Heating: the new Combined Heat and Power Plant in San Donato Milanese**, Dimitri Gazzotti, Daniele De Giovanni, Luigi Schirone, Enipower
2. **The Cofely cogeneration plant at Alcantara factory: a successful choice**, Roberto Trombini, Cofely
3. **Carbon Footprint reduction in the logistic waste management**, Gianluca D'Aquila, eni Syndial
4. **Flameless pressurized Oxy-Combustion: from municipal waste to products-only case, transforming ashes into commercial inert material, and combustibles into power, recovered clean water, and commercial CO<sub>2</sub>**, Alvise Bassignano, Massimo Malavasi, ITEA
5. **Avoidance of Flaring: Generating power and heat from sweet and sour gases down to 550kJ/Nm<sup>3</sup> (15 Btu/scf)**, Massimo Onofri, MEC SYSTEM

10.45 – 11.00 Coffee Break

11.00 – 12.30

### SCIENTIFIC AND TECHNOLOGICAL APPROACHES, CASE HISTORIES FROM THE ENERGY INDUSTRY (3/4)

Chairperson: Joachim Wilhelm - Rosetti Marino (ERM)

1. **From data to value: the Loccioni microgrid experience**, Matteo Morodo, Antonio Giovannelli, Laura Standardi, Stefano Collura, Enrico Rocchetti, Loccioni Group
2. **Bio-Methane from Biowaste – HERAmbiente case study**, Luca Pernetta, Emanuel Zamagni, Herambiente
3. **Electrochemical conversion of CO<sub>2</sub> to Formic acid: opportunities and barriers**, Narasi Sridhar, DNV

4. **High Value Microalgae to clean the air**, Tonia Principe, Matilde Mazzotti, Guido Emiliani, Micoperi Blue Growth

5. **Bio-oil from CO<sub>2</sub> biofixation: an opportunity for the O&G industry**, Daniela Bianchi, Filomena Castaldo, Stefano Rossini, eni

12.45 – 14.15 Lunch break

14.15 – 15.45

### SCIENTIFIC AND TECHNOLOGICAL APPROACHES, CASE HISTORIES FROM THE ENERGY INDUSTRY (4/4)

Chairperson: Stefano Rossini, eni

1. **Enhanced efficiency, sustainable power generation, and CO<sub>2</sub> emission reduction through Organic Rankine Cycle Technology**, Nicola Rossetti, Riccardo Vescovo, Turboden
2. **Producing Energy at Low CO<sub>2</sub> Footprint: the Geothermal Challenge**, Paolo Carrera, Saipem
3. **Development of a Gyroscopic Wave Energy Converter**, Andrea Gulisano, Giuliana Mattiazzo, Ermanno Giorelli, Vincenzo Orlando, Paolo Gherra, Giovanni Bracco, Politecnico di Torino
4. **Aosta District Heating: a winning challenge**, Roberto Trombini, Cofely
5. **LNG Fuelled Vessels: where are we?**, Mattia Raimondi, Rosetti Marino

15.50 – 16.30

### ROUND TABLE, CONCLUSIONS AND FAREWELL

With the participation of all session chairs who will present the major outcomes in terms of technology solutions and provide a link with the vision emerged from COP 21.

Leading the discussion: **Agnese Cecchini, Editorial Director Gruppo Italia Energia, and Roberto Cimino, Chairman of REM Programme Committee**

REM Organisers wish to thank all the participating companies for their support!



## BOOK YOUR DESK & WORKSHOP

**Mini-stands are equipped** with reception desk, brochure holder, lighting, top board with name and **costs vary from € 2,500 to € 3,500** depending on the stand size. **WORKSHOP ROOM is made available to companies to double benefit of their participation:** a fully equipped room within the exhibition area, to make demonstrations or technical presentations of their latest technologies and products. **Exhibitors are also granted one free delegate registration and advertising banners on REM promotional newsletters!**

## REM VENUE

REM 2016 will be held at **GRAND HOTEL MATTEI - CONFERENCE CENTRE Viale E. Mattei 25, Ravenna, Italy.**

For accommodation please contact [booking@grandhotelmattei.com](mailto:booking@grandhotelmattei.com) For directions see [www.remenergy.it](http://www.remenergy.it)

## CONFERENCE REGISTRATION

Registration to the conference includes attendance at all sessions and workshops, lunches and coffee breaks, and conference materials.

### Pricing and options:\*

FULL REGISTRATION: 2 Day Conference - € 350,00 (+ VAT)

ONE DAY REGISTRATION: 1 Day Conference - € 250,00 (+ VAT)

### Special Packages (only for 2 day registrations):\*

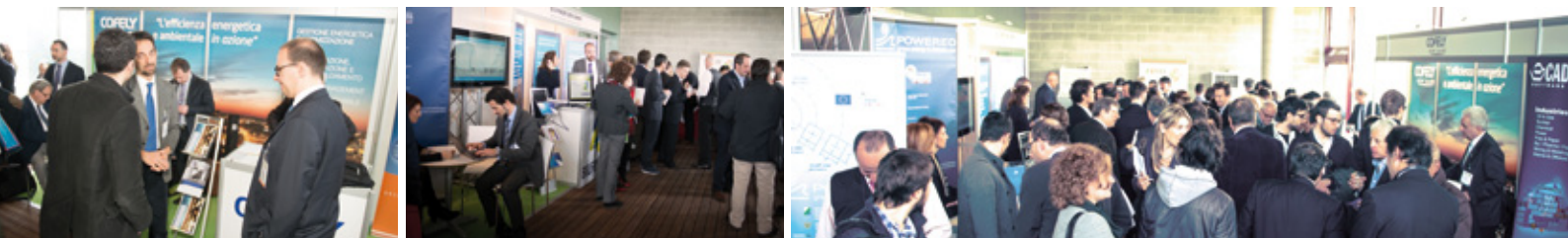
2 registrations - 10% reduction - € 315,00 (+ VAT)

3 registrations - 15% reduction - € 297,00 (+ VAT)

4 registrations - 20% reduction - € 280,00 (+ VAT)

\*prices are per person

Reductions (only for 2 day registrations) for partners' members:



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