



POLITECNICO DI TORINO



SAPIENZA
UNIVERSITÀ DI ROMA



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



analysis and monitoring of environmental risk



Centro di Ricerca
Interuniversitario
in Economia
del Territorio



European Centre for Training and Research in Earthquake Engineering



ISMAR



Istituto Nazionale di Geofisica e Vulcanologia



Istituto Nazionale di
Geofisica e Vulcanologia



OGS



Rete dei Laboratori Universitari di Ingegneria Sismica



Ricerca
Sistema
Energético

DGS UNMIG

The Directorate General for Safety National Mining Office for Hydrocarbons and Georesources is accountable for the activities of technical management, monitoring, supervision and environmental safety of upstream activities.

To carry out this mission the Directorate General for safety deploys a rich heritage of technical, administrative and policy know-how in the hydrocarbon sector that in 2017 celebrates its 60th anniversary from its foundation. Such commitment delivers excellent results in the field of prevention by the UNMIG Sections on Italian territory along with Chemical and Mineralogical Analysis Laboratories.

A renewed momentum in skills has reached a milestone in 2015 when DGRME (Directorate General for Mineral Resources and Energy) was transformed in the Directorate General for Safety- UNMIG - as a result of the transposition of DIRECTIVE 2013/30 / EU for safety of offshore activities, with the ultimate objective of integrating environmental and socio-economic aspects in the management of the underground mineral and energetic resources: hydrocarbon, raw materials and geothermy. In this framework the Directorate is committed to continuous action in monitoring safety objectives and sustainable development of upstream activities in Italy, in international relations to guarantee an exchange of best practices and in the development of regulations and cutting edge policy. In this renewed role, alongside traditional activities, also the dialogue with stakeholders, communities and citizens, statistical analysis, open data and applied scientific research have become strategic. From 2014, the Directorate created and coordinates a network of national research centres and universities specialized in the various aspects of safety and of relevant strategic sector.

**Ministry of Economic Development
Directorate General for Safety of Mining and Energy Activities
National Mining Office for Hydrocarbons and Georesources**

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Since 2014, in response to the growing importance and to the strong interest in the European and global scenario on the issue of the safety of offshore activities, DGS UNMIG considered strategic to start a series of partnerships with Universities, Research Institutions and Armed Forces. The partnerships set up till now produced positive effects in testing and improving skills in monitoring of offshore operations.



Ministry of Economic Development
DIRECTORATE GENERAL FOR SAFETY OF MINING AND ENERGY ACTIVITIES
NATIONAL MINING OFFICE FOR HYDROCARBONS AND GEORESOURCES

60° UNMIG
1957-2017

GEOHERMAL ENERGY: THE CURRENT SITUATION AND FUTURE DEVELOPMENTS



**31th MARCH 2017
9.00 a.m. - 1.00 p.m**

Ravenna, Pala DeAndrè - Arena (Hall 4)

GEOTHERMAL ENERGY: THE CURRENT SITUATION AND FUTURE DEVELOPMENTS



In terms of energy, sustainable development requires the use of advanced technologies, in order to avoid environmental pollution problems. With this event, the DIRECTORATE GENERAL FOR SAFETY OF MINING AND ENERGY ACTIVITIES- National Mining Office for Hydrocarbons and Georesources intends to take stock of the situation in Italy and in other European countries, in relation to a prime source of energy, such as geothermal heat. In Italy at the moment there are a number of plants for the production of electricity from geothermal heat, of the traditional type. At the same time some small experimental plant projects are being approved at the Ministry of Economic Development. With these systems we will test a new type of production process, without polluting emissions. These projects require cutting-edge technologies for the plants, and new well completion techniques, in order to optimize the underground multiphase reinjection, which is the most challenging aspect of the program.

- 9.00 am REGISTRATION
- 9.30 am OPENING SPEECH
Franco Terlizzese
*Director General for Safety
National Mining for Hydrocarbons and Georesources
Ministry of Economic Development*
- 9.45 am THE CURRENT SITUATION IN ITALY AND IN EUROPE
Federica Fratoni
*Concillor for the Environment and Soil Conservation
Tuscany Region*
Marcello Saralli
*Director National Mining Office for Hydrocarbons
and Georesources Section of Rome
Ministry of Economic Development*
Fabio Moia
*Expert in Geothermal Energy
Directorate General for Safety of Mining and energy activities
Ministry of Economic Development*
Ruggero Bertani
President EGEC (European Geothermal Energy Council)
Katiuscia Eroo
Responsible Energy Legambiente Italy
- 10.40 am KMT INFRASTRUCTURE FOR INTERNATIONAL RESEARCH
Paolo Papale
*Director of Research,
INGV - Istituto Nazionale di Geofisica e Vulcanologia, Italy*
- 11.00 am COFFE BREAK
- 11.15 am Innovative Technologies
Angelo Calderoni
Vice President Research And Development Drillmec SpA
Bodo von Düring, CEO CloZEd Loop Energy AG,
Lorenz Ueing, Project Manager CloZEd Loop Energy AG
Joseph Bonafin
Sales Leader, Geothermal Division Turboden SpA
Marco Paci
*Head of Geothermal Enviromental Technology
Implementation, Technical Support
Geothermal Italy O&M, Enel Green Power Spa*
Roberto Bonciani
*Head of Technical Support Geothermal Italy O&M
Enel Green Power Spa*
- 12.15 pm EXPERIMENTAL PLANTS
Fausto Batini
Chief Technical Officer Magma Energy Italia S.r.l.
Matteo Ceroti
Business Development Manager Sorgenia SpA
Franco Barberi
*President of the Scientific Committee Itw Lkw
Geotermia Italia SpA*
Roberto Troncarelli
*Scientific director Geothermal Pilot Project
Latera Sviluppò S.r.l*
- 12.55 pm CONCLUSIONS
Pietro Cavanna
*President Hydrocarbons and Geothermal
Sector Assomineraria*