











Ecomondo 2021

26 / 27 / 28 / 29 OCTOBER

Legend

-  AGRI-FOOD, FORESTRY AND BIOBASED INDUSTRY
-  BEACON CONFERENCES
-  BIOREMEDIATION AND SITE REQUALIFICATION
-  BLUE GROWTH
-  CIRCULAR ECONOMY VALUE CHAINS: REINFORCE SYSTEMS AND CLUSTERS
-  HYDROGEOLOGICAL RISKS AND DISASTERS PREVENTION AND MANAGEMENT
-  MONITORING & CONTROL
-  STAKEHOLDER EVENTS IN COOPERATION WITH THE EUROPEAN COMMISSION
-  SYSTEMIC WATER CYCLE MANAGEMENT AND VALORIZATION
-  WASTE MANAGEMENT AND VALORIZATION

TUESDAY 26 OCTOBER

09:30 - 17:30

Gemini Room C3 Pav.

**HYDROGEOLOGICAL
RISKS AND DISASTERS
PREVENTION AND
MANAGEMENT**

Ecomondo Event

Risk mitigation structures for fast landslides

Language: Italian

Organized by: Ecomondo Scientific-Technical Committee & Italian Geotechnical Society

Climate change is a topical issue and the landslide risk mitigation has become crucial for next generations. The Agenda 2030 for Sustainable Development of United Nations also adds an old-new challenge: how to combine the land use with the preservation of natural resources and the prevention of disasters. Among the most widespread and often severe hazards, fast landslides (debris flows, debris avalanches, debris floods, etc) is the class characterized by the largest destructive potential, involving huge soil/rock masses, travelling very fast and even along gently inclined slopes.

This conference deals with the reduction of the risk posed by fast landslides in a modern framework of optimizing structural efficiency and reducing both construction costs and environmental impact. Examples of structures (reinforced embankments, filtering barriers, permeable racks, flexible nets, etc) employed to either stop or deviate the flowing masses will be considered. The approaches and methods nowadays available for design will be illustrated. The main focus of the conference will be on: (i) the reliable assessment of the input data, which is crucial for the correct choice of the structure, its positioning and for the specific design; (ii) the adequate analysis of the dynamic interaction between flowing mass and protection structure.

Programme

9.30-10.00 Registration

10.00-10.15 Introduction

Nicola Moraci (IGS President)

Daniele Cazzuffi (IGS President)

Session 1: Features and design of protection works

Chair: Claudio di Prisco (Politecnico di Milano)

10.15-10.45 *Risk mitigation structures: classification and fields of application*

Giovanni Vaciago (Studio Geotecnico Italiano, Milano)

10.45-11.15 *A frame work for design: advanced approaches*

Sabatino Cuomo (Università degli Studi di Salerno)

11.15-11.45 *Protection earthworks*

Francesco Calvetti (Politecnico di Milano)

11.45-12.15 *Design of reinforced embankments*

Piergiorgio Recalcati (Tenax SpA, Viganò)

12.15-13.00 *Discussion*

Session 2: Applications and case histories

Chair: Sabatino Cuomo (Università degli Studi di Salerno)

14.15-14.45 *Use of metallic wires along mountain creeks*

Marco Greco (Geobrugg Italia srl, Bergamo)

14.45-15.15 *Monitoring of protection structures against channelized landslides*

Fabio de Polo (Agenzia per la Protezione Civile Bolzano-Bacini Montani, Bolzano)

15.15-15.45 *Slit-check dams: assessments of impact forces and retaining efficiency*

Marina Pirulli (Politecnico di Torino)

15.45-16.15 *Solutions for mitigation of flow-like landslides*

Rinaldo Uccellini (Officine Maccaferri Italia srl, Zola Predosa)

16.15-16.45 *Performance of a reinforced embankment for protection against fast landslides*

Luis Russo (Huesker srl, Trieste)

16.45-17.30 *Discussion and Closure*

Daniele Cazzuffi (CESI SpA, Milano) e Nicola Moraci (Presidente AGI)

09:30 - 18:00

Tiglio Room A6 Pav

**WASTE MANAGEMENT
AND VALORIZATION***Ecomondo Event - Call for
Papers*

Sustainable technological innovations for material and energy recycling and recovery

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, Italian Chemical Society – Division Environmental and Cultural Heritage Chemistry, ATIA – ISWA**CALL FOR PAPERS**

The aim of a decoupling between the advisable economic development and the undesirable depletion of planet resources requires a huge effort towards a technical improvement, able to implement new processes to close the cycles in all productive value chains.

A first important European initiative, in line with the new Circular Economy Action Plan, has recently been delivered, in relation to batteries (industrial, automotive, electric vehicle and portable), but the ambitious targets fixed by EU for the next years cover many priority sectors (plastics, packaging, WEEE, textiles, building and construction, food).

This seminar thus intends to show some advanced initiatives of technological innovations which could be applied to different categories of residues, by-products or discards, both industrial and urban, with the aim of improving resources circularity and valorisation.

Section Chairs

Fabrizio Passarini (Ecomondo Scientific Technical Committee, University of Bologna)

Mario Malinconico (Ecomondo Scientific Technical Committee, ATIA – ISWA, CNR)

Mauro Majone (Ecomondo Scientific Technical Committee, University “La Sapienza” Rome)

Programme

9.30-9.45 Introduction by the Chairs and a short summary on the papers presented through posters

9.45-10.15 Invited lectures

9.45-10.00 *The frontiers of plastic mix chemical recycling*
Antonio Protopapa (COREPLA)

10.00 – 10.15 *A framework of present possibilities and perspectives of carbon recovery from waste flows*
Paolo Pavan (Università “Ca Foscari” di Venezia)

10.15-13.00 Presentations selected from the *Call for papers*

13.00-14.00 Break

14.00-15.00 Invited lectures

15.00-17.15 Presentations selected from the *Call for papers*

17.15-17.30 Discussion and Closure by the Chairs

10:00 - 13:00

Ravezzi 1 Room South
Hall**SYSTEMIC WATER
CYCLE MANAGEMENT
AND VALORIZATION***Ecomondo Event*

Language: Italian

10:00 - 13:00

Biobased Industry Room
D1 Pav.**AGRI-FOOD, FORESTRY
AND BIOBASED
INDUSTRY**
Ecomondo Event

Agrifood post Covid: needs, critical issues and opportunities through the experiences of agri-food companies

Language: Italian

Organized by: Ecomondo Scientific and Technical Committee and National Agrifood Cluster CL.A.N.

The Italian agri-food industry never stopped its activity during the pandemic crisis, showing resilience, flexibility and a sense of responsibility. The sector has once again enhanced its countercyclical qualities, ensuring the availability of food, even in an extremely difficult context caused by overheating demand. Despite this, however, it must be said that the agrifood sector is also not crisis – free and has suffered large losses, mainly due to the closure of the HORECA channel. The need to face the critical issues related to the pandemic, to return to normality as quickly as possible, has highlighted the importance of a unified approach in dealing with the post-Covid restart by all the national stakeholders of the agrifood sector, which is the inspiring principle of the Cluster CL.A.N. itself. The workshop will be an opportunity to illustrate the Position Paper written by CL.A.N. on the critical issues, needs and opportunities of the agrifood sector related to the pandemic and the measures taken by the agrifood businesses to face the crisis both on the internal side (production organization), and on the external one (logistics matters on food supply and delivery), with the involvement of companies from different supply chains. Finally, the event will be an opportunity to illustrate the Three-Years Action Plan submitted to the Ministry of University and Research, as well as the actions undertaken.

Section Chairs:

Mauro Fontana (President CL.A.N.)

Paolo Bonaretti (Vice-President CL.A.N.)

Massimo Iannetta (President Scientific and Technical Committee CL.A.N.)

Programme

10.00 Introduction by Mauro Fontana, President CL.A.N.

10.10-10.25 The Position Paper of the Cluster CL.A.N. on the critical issues, needs and opportunities of the agri-food sector associated with the Covid emergency

Massimo Iannetta, President Scientific and Technical Committee CL.A.N.

10.25 – 11.40 Companies experiences:

10.25 -10.40 Critical issues, needs and opportunities – primary production

Confagricoltura or primary production company

10.40 -10.55 Critical issues, needs and opportunities – food processing - supply chain 1

10.55 - 11.10 Critical issues, needs and opportunities – food processing - supply chain 2

11.10 – 11.25 Critical issues, needs and opportunities – food processing - supply chain 3

11.25 – 11.40 Critical issues, needs and opportunities – food processing - supply chain 4

Moderator: Paolo Bonaretti

11.40- 12.20 The updated Three-Years Action Plan and the post-Covid phase

11.40 – 11.50 Priority 1 “Agrifood Sustainable” – Daniele Rossi, Board Member and Pivot of Priority 1

11.50 – 12.00 Priority 2 “Agrifood Made in” – Michele Suman, Member Scientific and Technical Committee CL.A.N. and Pivot of Priority 2

12.00 – 12.10 Priority 3 “Agrifood Healthy” – Patrizia Brigidi, Vice-President Scientific and Technical Committee CL.A.N. and Pivot of Priority 3

12.10 – 12.20 The action lines of the Three-Years Action Plan

Mauro Fontana, President CL.A.N.

12.20 – 12-30 Open Discussion

12.30 – 12.40 Mauro Fontana, President CL.A.N.

10:00 - 13:30

Monitoring & Control
Room C2 Pav.**MONITORING &
CONTROL***Ecomondo Event - Call for
Papers***Odor emissions: from abatement technologies to new control strategies**

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, ISPRA, Italian Chemical Society, Division of Environmental Chemistry and Cultural Heritage**CALL FOR PAPERS**

The Ecomondo Odor Emissions conference (at its eleventh edition) is a flagship event for the community of most important industry and academic players. Researchers, Industry, Public administration and Environmental Agencies exchange their different experiences on a topic that is becoming of great relevance in environmental planning. As usual, the workshop will be opened with an update on the work of national and international technical committees on odor regulations. The following are planned: the interventions of the main public research bodies operating in this sector; the presentation of case studies and best practices by public administrations, control agencies and companies that develop technologies on the topic.

Section Chairs

Gianluigi de Gennaro, University of Bari Aldo Moro

Lucia Muto, ISPRA, Institute for Protection and Environmental Research

Gaetano Settimo, National Institute of Health

Program

10.00 - 11.00 Introduction

Two invited lectures

11.00 - 12.30 Sessions

12.30 - 13.00 Poster Session

13.00 - 13.20 Discussion and Conclusion

10:00 - 13:30

Ravezzi 2 South Hall

BLUE GROWTH
Ecomondo Event

Transforming plastics litter into new chemicals? Opportunities and challenges for innovative pyrolysis plants

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and CINEA (Sustainable Blue Economy Unit)

The workshop will gather innovators, local and ports authorities, legislators and stakeholders, e.g. waste managers, fishers and vessels to discuss the opportunities offered by pyrolysis plants to convert plastics waste into new chemicals. At the same time the technical and legislative barriers that hinder the exploitation of this kind of technologies will be addressed.

The workshop will tackle plastics coming from different waste streams, and will specifically focus on the use of low temperature pyrolysis plants to treat marine litter.

Section Chairs

Vincent Favrel, HoU for Sustainable Blue Economy or Luca Marangoni, Deputy HoU, CINEA and Representative of DG MARE, European Commission

Programme

10.00 Introduction by the Chairs

10.20-10:40 The case of the EU funded project marGnet
Representative of marGnet (CNR ISMAR, Sintol s.r.l.)

10:40-11:00 The case of the port of Moerdijk (NL)
Representative of port authority of Moerdijk (tbc)

11:00-11:20 Regulatory sandboxes for innovation
Representative of European Commission – DG Research and Innovation (tbc)

11:20 – 11:40 coffee break

11:40 – 12:30 – Round table discussion on technical and legal challenges of pyrolysis plants

Representative of DG Environment, EU Commission, National Authorities, sectoral associations (tbc)

12:30 – 13:20 – Round table discussion on stakeholder involvement for marine litter recycling, Fishermen associations, Port and Local Authorities

13.20-13:30 - **Closure (by the chairs)**

10:00 - 16:30

Reclaim Expo Room C1
Pav.**BLUE GROWTH**
Ecomondo Event

Coastal areas and the climate change challenge – green ports, urban areas, coastal management and adaptation for a sustainable blue growth

Language: Italian

Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, Italian Ministry of Ecological Transition, ISPRA, TNEC, GNRAC, LEGAMBIENTE

The great development of coastal areas in the last century gave a significant contribution to the economic and social well-being of entire regions and countries. Coastal systems, infrastructures, ports, urban areas, natural areas, are today at the heart of activities related to the sea economy, from marine-coastal tourism to fishing, from maritime transport to trade and the movement of people. But the concentration of settlements and human activities along coastal areas represents in the meantime a major concern today in relation to current climate change and the trend of sea level rise. In this context, in order to pursue the objectives of Blue Growth and seize as an opportunity the challenge of climate change, it is necessary to opportunely change development models, infrastructures design, transformation of coastal urban areas and waterfronts into a logic of adaptation and sustainability, capable on the one hand of contributing to the reduction of climate-altering factors and, on the other hand, to address the effects of climate change in the direction of enhancement of the resilience of coastal systems. The conference intends to give a contribution in shaping the picture of what is already under way in this area and with what perspectives.

Institutional introduction

Thematic sessions:

S1- "Green Ports": Energy and ecological transition, decarbonisation, sustainable sediment management

1. The recovery plan and the policies for "Green Ports"

Giuseppe Catalano, mission unit coordinator by the Ministry of Sustainable Infrastructures and Mobility;

2. "Green Ports", the route for sustainable development

Cristiana Biondo, Legambiente;

3. Perspectives for the energy and ecological transition of large ports

Antonella Querci, Port System Authority of the Northern Tyrrhenian Sea;

4. The Envision Protocol for sustainable infrastructures: characteristics and applications

Lorenzo Orsenigo, President ICMQ;

5. Sustainable sediment management in the ports: application examples of the ejectors' technology.

Maurizio Siepi Trevi SpA, Marco Pellegrini Dipartimento Ingegneria Industriale, University of Bologna;

S2- Coastal urban areas: risks and opportunities for transformation in terms of sustainability and adaptation

1. Sea level along the Italian coasts in future climate scenarios

Gianmaria Sannino, Head of Climate Modelling and Impacts Laboratory, ENEA;

2. Climate changes and risks for the Italian coastal areas

Edoardo Zanchini, Vicepresident Legambiente;

3. Climate risks for coastal cities

Francesca Giordano, ISPRA;

4. Strategies in the Urbanistic Plans of the Emilia-Romagna coast for increasing resilience and adaptation to climate change, within the framework of the Regional Law 24/2017

Roberto Gabrielli, Laura Punzo, Department of Spatial and Urban Planning, Transports and Landscape, Emilia-Romagna Region;

5. The "Rimini Sea Park"

Anna Montini, Assessor of Environment Rimini Municipality;

6. Venice/MOSE: the entry into operation of the barriers for high water protection

Cinzia Zincone, Proveditore, Provveditorato Public Works of Triveneto - Elena Zambardi Head of Communication Office Consorzio Venezia Nuova;

7. Environmental observations related to the entry into operation of MOSE mobile barriers

Pierpaolo Campostrini, CORILA

Lunch break

S3- Coastal management: Strategies and plans for coast adaptation, Mediterranean and international experiences

1. Ecosystem-based management and coastal adaptation, international experiences

Stephen Olsen, Director Emeritus URI Coastal Resources Centre (Rhode Island);

2. Lo stato dei litorali italiani [titolo provvisorio]

Maurizio Ferla, Head of the National Centre for Coastal Protection, CN-COS, ISPRA;

3. The Coastal Plan of the Municipality of Lecce

Rita Miglietta, Assessor of Urban Planning Lecce Municipality;

4. The new ICZM Plan of the Marche Region in its first phase of implementation.

Luigi Ditoallevi e Giorgio Filomena, Marche Region;

5. Coastal adaptation plans according to the ICZM Protocol for the Mediterranean

Daria Povh, PAP/RAC;

S4- Knowledge development: Experiences and new technologies in survey on the coastal environment, state of art and perspectives

1. Multidisciplinary approaches to the analysis of coastal systems for a coordinated, cross-border management: challenges and results of the project CHANGE WE CARE

Davide Bonaldo et al. ... ISMAR-CNR;

2. Experiences and good practices in coastal monitoring

(Region tbd)

3. New technologies and development perspectives for coastal monitoring

(specialised Company tbd)

4. Experiences and good practices in coastal monitoring

(Region tbd)

5. New technologies and development perspectives for coastal monitoring

(specialised Company tbd)

Interaction with the public: question / answer space at the end of each session and possible round table at the end of the 4th session with all the speakers and the public, for an integrated, guided discussion on the topics of 1,2,3,4)

14:00 - 17:30

Global Water Expo
Room D2 Pav.**SYSTEMIC WATER
CYCLE MANAGEMENT
AND VALORIZATION***Ecomondo Event - Call for
Papers*

Successful large-scale applications of systemic planning, risk-assessment and safety planning in water use and reuse (including climate change and biodiversity)

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, University of Bologna, Polytechnic University of Marche, UTILITALIA and Italian Institute of Health, PRIMA FIT4REUSE, H2020 Digital Water City, H2020 ULTIMATE, H2020 HYDROUSA

CALL FOR PAPERS

The Sustainable Development Goals on water, energy, food and biodiversity sit at the heart of the Agenda 2030. Higher sustainability and circularity of water management call for systemic cross-sectoral collaboration and risk-based approach. Water-Energy-Food-Ecosystem nexus should drive decisions to overcome the current silo-driven disproportionate use. From regional planning to practical case studies the workshop will address those issues focusing on large-scale planning of sustainable and safe water use and reuse, including digital systems for monitoring and real data analysis, early warning and decision support systems and risk management plans for water reuse for irrigation. The nexus between water treatment and reuse, energy and environmental footprint, sustainable agricultural production and climate change will also be taken into consideration.

Section Chairs

Attilio Toscano – Università di Bologna – Ecomondo Scientific Technical Committee

Lucia Bonadonna – Istituto Superiore di Sanità

Francesco Fatone – Università Politecnica delle Marche – Ecomondo Scientific Technical Committee

Programme

10.00 Introduction by the Chairs

Attilio Toscano/Francesco Fatone

10.10-10.30 WEFE nexus in the Mediterranean region: from concept to practical applications and analytical framework to assess SDG targets

Representative of European Commission JRC (TBC)

10.30-10.45 Planning and innovation projects for agricultural water reuse in Emilia-Romagna

Attilio Toscano – University of Bologna and PRIMA FIT4REUSE Consortium

10.45-11.00 Wastewater treatment and reuse in industries and ecological sites: innovation projects and perspectives in Marche and Toscana

Francesco Fatone – Polytechnic University of Marche and H2020 ULTIMATE Consortium

11.00-11.15 Q&A and panel discussion

11.15-11.30 A nation-wide study on wastewater treatment and reuse potential in Italy: challenges and possibilities

Tania Tellini, UTILITALIA

11.30-11.45 Sanitation safety planning and WEFE nexus assessment for water reuse in urban and peri-urban irrigation of Rome and Milano

Luca Lucentini – Istituto Superiore di Sanità and H2020 DWC Consortium

11.45-12.00 The role of High Performance Computing and open climate data for climate-proofing water and natural resources management

Representative of CINECA

12.00-12.15 Strategies of the irrigation consortia for a sustainable and smart irrigation water use and reuse within the new EU policies

Battilani ANBI (tbc)

12.15-12.30 Systemic irrigation planning in Italy through integrated computer modeling and monitoring

*Claudio Gandolfi – University of Milano***CALL FOR PAPERS FOR POSTER PRESENTATION (5 MINS EACH)**

13.15-13.30 Q&A, panel discussion and conclusions

14:00 - 17:30

Monitoring & Control
Room C2 Pav.**MONITORING &
CONTROL***Ecomondo Event - Call for
Papers*

Indoor air quality is increasingly a challenge for health: what needs to change, how and when

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Higher Institute of Health

CALL FOR PAPERS

There is a lot of talk about indoor air quality, its principles and its role of health prevention and on several occasions. Undoubtedly it represents in this "historical phase" a fundamental issue for its economic implications (see the various bonuses eg eco-bonus 110%), environmental (reduction of polluting emissions for heating / cooling eg community directives and international COP agreements) and health related to the management of indoor environments during the COVID-19 pandemic). The day aims to shed light on the aforementioned implications and illustrate some examples and case studies. Furthermore, with regard to the approved National Prevention Plan (PNP) 2020-2025, draw attention to the objectives contained in order to try to pursue and substantially reduce the exposure of the population.

Section Chairs

Gaetano Settimo, Higher Institute of Health
Gianluigi De Gennaro, University of Bari

Programme

14.00 Introduction

14.20-14.40 Indoor air quality: The state of the art in Italy and Europe.
Gaetano Settimo, Coordinator of the GdS Indoor Pollution Institute of Health.

14.40-15.00 Architectures for Health: how to design healthier environments.
Stefano Capolongo and Marco Gola, Politecnico di Milano-Desing & Health Lab.

15.00-15.20 The state of the Ministerial Decree of 1975.
Daniela D'Alessandro, La Sapienza University.

15.20-15.40 Indoor air quality at the center of the new construction project of the Statte school.
Mauro De Molfetta, Municipality of Statte.

15.40-16.00 Indoor air: European and international experiences of GBC Italia.
Marco Caffi, Valentina Marino, Alessandro Speccher, GBC Italy

16.00-17.00 Call For Papers

17.00-17.30 Discussion and closure

14:00 - 17:30

Biobased Industry Room
D1 Pav.**AGRI-FOOD, FORESTRY
AND BIOBASED
INDUSTRY***Ecomondo Event - Call for
Papers*

European targets of climate neutrality: policies and resources for a competitive and sustainable agrifood supply chain

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Confagricoltura, Federalimentare, Enea

CALL FOR PAPERS

The European Union has presented an overall action plan to implement the objectives of the Green Deal and aims to achieve climate neutrality by 2050. The reduction of the environmental impact is fixing for all the actors of the agrifood supply chain objectives and challenges to which it will be not easy to respond. These include the reduction of greenhouse gas emissions, the promotion of energy efficiency and innovative technologies with low CO2 emissions (the so-called decarbonisation). In addition, the Member States are also outlining national strategies that identify possible paths to reach a condition of "climate neutrality", in which residual greenhouse gas emissions will be offset by the absorption/capture of CO2 and by the possible use of forms of geological storage as well as CO2 reuse. The realization of these objectives cannot be separated from the support from the European and national authorities through financing and facilitating measures that can really support the necessary investments requested to the operators of the agrifood supply chain.

Section chairs

Donato Rotundo (Confagricoltura)

Maurizio Notarfonso (Federalimentare)

Massimo Iannetta (Enea)

Agenda

14:00 Welcome and opening speech

14:10 – 14:30 Representative of European Commission, Directorate-General for Climate Action

14:30 – 14:50 Giuseppe Blasi, Italian Ministry of Agriculture

14:50 – 15,10 Andrea Tilche, Italian Ministry of Ecological Transition

15,10 15,30 "The decarbonisation in the agrifood supply chain

*Massimo Iannetta – Enea*15:30 – 16,00 *Half an hour with:* interview to Mr. Massimiliano Giansanti (President of Confagricoltura) and to Mr. Ivano Vacondio (President of Federalimentare)

16:00 – 17,00, Business case study

Chairs Giuseppe Pulina, Michele Pisante

Competitive and Sustainable agricultural and food industry supply chains

17:00 –Closing remarks

14:00 - 17:30

Ravezzi 1 Room South
Hall**BEACON
CONFERENCES**
Ecomondo Event

The BlueMed Pilot healthy plastics-free Mediterranean sea towards the 2030 targets: the strategy developed by the plastic producing and transforming operators of the area

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee, BlueMed GSOs, Federchimica-PlasticsEurope Italia; National Research Council of Italy (CNR)

EU Missions are undertaking actions to face some of the greatest global challenges by setting 2030 targets that includes cleaning marine waters, restoring degraded ecosystems and habitats, decarbonising the blue economy. In the frame of the BlueMed Pilot Action on a Healthy Plastic-free Mediterranean Sea, the wide community of the plastic producing and transforming operators of the area agreed on the urgency to reduce the risk for the environment and human health posed by plastic pollution by developing and implementing a shared vision for plastic in the circular economy. This event, jointly organized by the Euro-Mediterranean Group of 16 Senior Officials of BlueMed Initiative (www.blued-med-initiative.eu) and Federchimica-PlasticsEurope Italia, looks at the solutions adopted for a smarter local use, management and recycling of plastics with a high impact in terms of replication trough the basin and among international governance structures. Object of discussion includes key challenges ensuring a healthy and productive Sea together with the identification of pathways that need to be implemented to obtain measurable results and meet the 2030 targets for a systemic change.

Section chairs

Mario Ceribelli, PlasticsEurope Italia
Sigi Gruber, European Commission
Fabio Trincardi, National Research Council of Italy (CNR)

Programme

14.00 Introduction by the Chairs

14.20 The Mission: challenges and opportunities for a systemic change
Elisabetta Balzi, European Commission (tbc)

14.40 Research and innovation in the recovery and resilience plans: key investments at National and Regional level
Carlo Zaghi, DG MiTE (tbc)

15.00 The BlueMed Pilot: main achievements
Fabio Fava BlueMed GSO, Italy

15.15-16.30 Introducing key priorities for the Mediterranean Plastic Industry
Mario Ceribelli PlasticsEurope Italia

Roundtable with PlasticsEurope's Network of Mediterranean associations and policy makers. How good practices become actions.
Cvetanka Todorova - Bulgaria (BAP), Gordana Pehrec Pavlovic - Croatia (HGK), Vullnet Haka - Albania (APKA), Mirspad Jasarpahic - Bosnia and Herzegovina (KFBIH), Ilias Mamalis - Greece (AHPI), Constantin Opran, Romania (ASPAPLAST), Yavuz Eroglu - Turkey (PAGEV), Antonello Ciotti - Italy (COREPLA), Eric Quenet - France (PlasticsEurope France), Alicia Martin - Spain (PlasticsEurope Ibérica), Vojislav Bogdanovic - Serbia (JUPLAS), Mario Ceribelli - PlasticsEurope Italia, Michael Christides - Black Sea Economic Cooperation (BSEC)

16.30-16.40 From research to solutions: the innovative ecosystem of marine pollution
Hanna Dijkstra, IVM – Institute for Environmental Studies, Vrije Universiteit

16.40-17.15 Many languages, one voice: the BlueMed Hackathon to engage the community of young innovators and to boost investments in the blue economy
Fedra Francocci, CNR-IAS

Roundtable with

- Luca Ballista, Facility Live (*tbc*) – The innovation ecosystem of the Mediterranean makes flourish ideas into business
- The BlueMed Hackathon Winning Teams - Pitch Presentations
- BlueInvest - How to identify the key indicators to meet 2030 targets
- Q&A with the plastic industry and BlueInvestors

17.15-17.30 Discussion and Closure
By the Chairs: Targeting 2030 and beyond.

14:30 - 17:30

Ravezzi 2 South Hall

**WASTE MANAGEMENT
AND VALORIZATION***Ecomondo Event***The role of the national waste management program in the ecological transition**

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Utilitalia

The achievement of national target on waste management has always come to terms with a waste planning declined at a regional level and with the difficulty in intervening – in a timely and effective manner – where delays encountered at the regional level risk jeopardizing the achievement of national targets. The national decree 116/2020, in addition to adopting recycling and reduction objectives of landfilling of municipal waste (to be achieved by 2035), introduced a new important tool: the National Waste Management Program (NWMP). Through the comparison between the main institutions involved in the definition and implementation of the NWMP, the environmental associations and the operators of waste management, the conference will try to analyze the potential of this tool. Methodological proposals will also be put forward to make the most of a fundamental opportunity to definitively overcome the structural criticalities that characterize the national waste management system, and promote the industrial development of the sector, only through which will be possible a transition to a circular and sustainable economy.

Section chair

Rosanna Laraia – Ecomondo Scientific Technical Committee

Programme

14:30 Introduction and coordination by the Chairman
Rosanna Laraia – Ecomondo Scientific Technical Committee

Italian Institute for Environmental Protection and Research
Italian Ministry of Environmental Transition
The point of view of two Regions
Testimony of two waste management operators

16:00 Round Table

Environmental association
Confindustria
Fise Assoambiente - Unicircular
Utilitalia
The Bank of Italy

17:00 Conclusions
Rosanna Laraia – Ecomondo Scientific Technical Committee
Filippo Brandolini – Vice President of Utilitalia

WEDNESDAY 27 OCTOBER

09:30 - 17:30

Gemini Room C3 Pav.

**HYDROGEOLOGICAL
RISKS AND DISASTERS
PREVENTION AND
MANAGEMENT**
Ecomondo Event

The contribution of geotechnical engineering for solving environmental problems

Language: Italian

Organized by: Ecomondo Scientific-Technical Committee & Italian Geotechnical Society

In the context of environmental issues such as contaminated sites, landfills or waste materials, geotechnical engineering skills play an essential role in the design and construction of waste disposal by landfills, remediation technologies and reuse of waste materials. The first part of the conference is dedicated to some of the peculiar analyses required for the correct design of landfills and remediation of polluted sites, such as the analysis of contaminant migration, geotechnical stability, and health-environmental risk. The second part concerns the performance of different materials involved in the field of geo-environmental engineering (e.g. barrier materials, reactive materials, dredged sediments, soils from excavations), to highlight their advantages, limits and correct use or treatment, in the light of the most recent scientific developments and application experiences.

Programme

9.30 -10.00 Registration

10.00-10.15 Opening address

Nicola Moraci (IGS President)

Daniele Cazzuffi (IGS President)

Session 1 Analysis

Chair: Nicola Moraci

10.15-10.45 General introduction

Erio Pasqualini - Polytechnic University of Marche, Ancona

10.45-11.15 Migration of contaminants in low permeability barriers

Andrea Dominijanni, Polytechnic of Turin

11.15-11.45 Stability analysis in landfills: specific aspects

Ivo Bellezza, Polytechnic University of Marche, Ancona

11.45-12.15 Interface parameters for landfill barrier revetments

Paolo Carrubba, Paolo Pavanello, University of Padua

12.15-12.45 Risk analysis for contaminated sites

Marta Di Sante, Polytechnic University of Marche, Ancona

12.45-13.00 Discussion

Session 2. Materials and related applications

Chair: Daniele Cazzuffi

14.00-14.15 Introduction

14.15-14.45 Geosynthetic clay layers for capping systems

Francesco Mazzieri, Polytechnic University of Marche, Ancona

14.45-15.15 Cement-bentonite mixes for diaphragm walls

Evelina Fratolocchi, Polytechnic University of Marche, Ancona

15.15-15.45 Reactive permeable barriers to reduce groundwater contamination

Stefania Bilardi, Nicola Moraci, Mediterranean University of Reggio Calabria

15.45-16.15 Environmental protection and remediation of polluted sites with active geocomposites

Alberto Simini, Huesker, Trieste

16.15-16.45 Consolidation of dredged sediments in port area

Mirko Felici, Polytechnic University of Marche, Ancona

16.45-17.30 Discussion and Closure

Daniele Cazzuffi (CESI SpA, Milano)

10:00 - 13:00

Global Water Expo
Room D2 Pav.**BEACON
CONFERENCES**
Ecomondo Event

WATER PROJECTS EUROPE – Water-smart industrial and utility-industry symbiosis

Language: English
Simultaneous translation: Italian**Organized by: Ecomondo Scientific Technical Committee and Water Europe**

Water Projects Europe is a new series of events of Water Europe made to foster collaboration between R&I projects working on specific topics. This edition is shaped as a workshop focused on WATER-SMART INDUSTRIAL SYMBIOSIS challenges and perspectives towards a digital and ecological transition.

The speakers from selected projects and organisations will offer tangible example on how R&I contributes to to build a resilient, green and circular Europe.

Section ChairsAndrea Rubini – Water Europe Director of Operation
Francesco Fatone – UNIVPM, VLT Value in Water**Programme**

10.00-10.10 Introduction by the Chairs

10:10 – 10:20 Welcome and introduction
*Durk Krol (Executive Director, WE)*10:20 – 10:30 Setting the scene: the Water Smart symbiosis in Europe and Med area
*Andrea Rubini (Director of Operations, Water Europe)*10:30 - 10:45 Key note speech from European Commission
EC Agency – TBC

Project Presentation session:

10:45 – 12:25 Selected Horizon2020 innovation actions presented by coordinators or industrial partners

12:25 – 12:45 Panel discussion and Q&A (moderated by Water Europe)

12:45 – 13:00 Wrap up and conclusions
Andrea Rubini (Director of Operations, Water Europe)

10:00 - 13:30

Noce Room A6 Pav

**CIRCULAR ECONOMY
VALUE CHAINS:
REINFORCE SYSTEMS
AND CLUSTERS**

*Ecomondo Event- Call for
Papers*

The contribution and potential of Industrial Symbiosis for the ecological transition

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, ENEA and SUN (Symbiosis Users Network)

CALL FOR PAPERS

The ecological transition placed at the center of the Italian government agenda requires the redesign of production processes, distribution systems and consumption models. In this context, it is essential that the country-system is able to promote and encourage methodological and technological innovation through the systemic implementation of industrial symbiosis along the value chain and among value chains. The event aims to be an opportunity to discuss concrete cases of industrial symbiosis (with details of the operational, procedural, economic and environmental aspects, also with reference to the potential for decarbonisation), on technical and / or operational standards and on the tools to support both implementation and investments for industrial symbiosis.

Section Chairs

Laura Cutaia, ENEA –SUN - Symbiosis Users Network President

Andrea Vignali, Presa Diretta Journalist

Program

10.00 – 10.10 Introduction

10.10 – 10.50 Invited speakers

Laura D'Aprile – Head of the Department for Ecological Transition and Green Investments – Ministry of Ecological Transition

Paola Migliorini, - Deputy Head of Unit, European Commission, DG Environment, Sustainable Production, Products and Consumption

Marco Conte - Deputy Secretary General of the Circular Economy and Environment Area, Unioncamere

Marco Ravazzolo – Responsible for Environment and Energy - Industrial policies and sustainability area - Confindustria

Enrica Maria Martino, Projects and Tools Area, Infrastructure and Environment Office– Territorial Cohesion Agency

10.50-12.30 Presentations from call for papers

12.30-13.00 Discussion and Closure (by the chairs)

10:00 - 13:30

Monitoring & Control
Room C2 Pav.**MONITORING &
CONTROL***Ecomondo Event - Call for
Papers***The Health Impact Assessment (HIA): analysis of the application of the ISS National Guidelines in EIA procedures**

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Higher Institute of Health**CALL FOR PAPERS**

The conference (workshop) aims to describe the application, in different regions, of the HIA guidelines drawn up by the Italian National Health Institute (ISS) implemented for specific industrial settlements, in order to include and assess the health impacts during the EIA procedures, and, in the near future, of applying the HIA approach. The conference (workshop) also describes the activities of the biennial project funded by the Ministry of Health, aimed primarily at training activities for the personnel of the regional health prevention departments in charge of carrying out these assessments for the industrial plants located in their area. The different experiences and activities of territories in order to develop fruitful collaborations for HIA studies will be discussed.

Section Chairs

Gaetano Settimo, Higher Institute of Health
Maria Eleonora Soggiu, Higher Institute of Health
Gianluigi de Gennaro University of Bari

Program

10,00 Introduction (by the Chairs)

10.20-10.40 *Ministry of Health*

10.40-11.00 Maria Eleonora Soggiu, Higher Institute of Health

11.00-11.20 tbd

11.20-11.40 tbd

11.40-13.15 Presentation of selected papers

13,15 Discussion and Closure (by the chairs)

10:00 - 13:30

Ravezzi 1 Room South
Hall**BEACON
CONFERENCES**
Ecomondo Event

The European Green Deal: first results and new approaches. A view from H2020 to Horizon Europe

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and APRE – Agency for the Promotion of European Research

The European Green Deal is the European Commission's roadmap to make Europe the first climate neutral continent by 2050. To reach this goal, action is required by all fields of the EU economy, including decarbonizing the energy sector, investing in environmental-friendly technologies, cooperating with international partners to improve global environmental standards, and so on.

For the last and biggest call under Horizon2020 – known as European Green Deal call – the EC tabled €1 billion for an ambitious action plan, designed to respond to the climate change crisis by providing more protection to Europe's biodiversity and habitats, accelerating a sustainable recovery. For a systemic transformation towards a climate-neutral EU, the call included 8 thematic areas, reflecting the key workstreams of the Green Deal, and 2 horizontal priorities, strengthening knowledge and empowering citizens. The holistic approach that underpins the Green Deal call and the whole H2020 Programme, will be boosted in the new R&I Funding Programme until 2027, known as Horizon Europe. Such approach can be found in Horizon Europe Work Programme and mainly in the Clusters (green technologies for cultural heritage in CL2; climate-related disasters in CL3; green manufacturing and production, digital and emerging technologies and space applications in CL4, exc.). Among all, Cluster 5 and Cluster 6 are those that most reflects the objectives of the Green Deal – which will have a thematic approach focused respectively on "Climate, energy and mobility", and "Food, Bioeconomy, Natural Resources, Agriculture and Environment". The workshop will investigate the first results coming from the Horizon 2020 Green Deal call in a long term prospective toward Horizon Europe.

Section Chairs

Serena Borgna, APRE
Fabio Fava, University of Bologna10.00-10.15 The European green deal policy: the green transition
*Giovanni De Santi, Director, Directorate for Sustainable Resources, JRC*10.15-10.30 Green deal call in H2020: aims and results
John Bell, Director, Healthy planet Directorate, European Commission (TBC)

10.30-11.30 A view from the winners: a roundtable discussion with projects funded in the H2020 GD call

11.30-11.50 The European Green Deal in the frame of the Italian PNR
*Raffaele Liberali, Ministry of University and Research*11.50-12.10 The European Green Deal in the frame of the PNRR
*Renzo Tomellini, Ministry of Ecological Transition*12.10-12.30 The green prospective in Horizon Europe: the evolution in the new European framework programme for Research and Innovation
Representative of APRE

12.30-13.00 From the past for a better implementation toward the future: lesson taken for HE

Roundtable discussion with *J. Bell, G. De Santis, R. Liberali, N. Amodio.*

13.00-13.30 Discussion and Closure (by the chairs)

10:00 - 13:30

Diotallevi 2 Room South
Hall**BLUE GROWTH**
Ecomondo Event

Italian Recovery Plan and blue circular economy

Language: Italian
Simultaneous translation: English**Organized by: Ecomondo Scientific Technical Committee, CNR, MISE, Cluster BIG**

The Conference aims to continue from previous Ecomondo's Editions the discussion on the challenges and opportunities of circular economy in several sectors of sea economy. Circularity principles at the base of the Circular Economy Package are very relevant in the context of the EU Green Deal, as they must be reflected in national strategies (e.g. BIT II - A new Bioeconomy strategy for a sustainable Italy; Italian Recovery Plan (PNRR - Piano Nazionale di Ripresa e Resilienza)). Following some keynote presentations on key trajectories of national and Mediterranean relevance, a series of pitches from science, academia, decision makers, private operators will showcase best practices and experiences in different sectors.

Section Chairs

Andrea Barbanti, National Research Council (CNR)
Roberto Cimino, Cluster BIG and ENI
Maria Grazia Verdura, Italian Ministry of Economic Development

Programme

10.00 Introduction by the Chairs

10.10-11.25 **Session 1**

Blue Circular Economy and PNRR: actions and interactions
Giovanni Caprino, Cluster BIG and CETENA

Reinassance Flagship Project
Gian Marco Luna - CNR-IRBIM and IT Bioeconomy Committee

Challenges and potentials of blue biotechnologies
Giovanna Romano, SZN, MUR-ITEM Project and WG BIG on Bioeconomy

Building the Mediterranean blue bioeconomy community: MED-PANORAMED Strategic Projects B-BLUE and BLUEBIOMED
Cristian Chiavetta (ENEA) and Stefano Valentini (ART-ER)

Critical raw materials in blue economy
Claudia Brunori, ENEA

11.25 – 11.35 Q&A

11.35 – 11.50 Coffee break

11.50 – 13.20 **Session 2**

Offshore platforms sustainable retrofitting: a contribution to a circular blue economy
Antonio Dell'Anno, Marche Polytechnic University

Circularity of a safe and sustainable decommissioning and reuse of offshore Platform: results from CLYPEA researches
Ilaria Antoncecchi, MISE and Clypea Network

Holistic Life Cycle Analysis (LCA) Platform for the Shipping Industry
Marc Bonazountas, Epsilon Malta, Ltd, Project EMFF-EASME VesselsLife.com

Marine Litter: turning a problem into a resource - the marGnet and MAELSTROM projects
Fantina Madricardo, CNR-ISMAR

Recover Ingredients: from bones and shells to cosmetic ingredients and plant fertilizers
Alessio Adamiano, Recover Ingredients s.p.a. and CNR-ISTEC

Best practices of circularity in aquaculture
Michela Cariglia, Consorzio Gargano Pesca

Contributions from Cluster BIG Associates on Blue Restart Initiatives
Speakers tbc

BlueBio COFUND/BlueMed CSA training course on blue bioeconomy: outcomes and future perspectives.
Renata Denaro, CNR-IRSA

13.15-13.30 **Closure Remarks**

Carlo Zaghi, Director, Directorate General for Costs and Seas, Italian Ministry of Ecological Transition

10:00 - 13:30

Ravezzi 2 South Hall

**STAKEHOLDER EVENTS
IN COOPERATION
WITH THE EUROPEAN
COMMISSION***Ecomondo Event*

Boosting SME investments for a blue and green economy

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and CINEA (Sustainable Blue Economy Unit)

The event will launch the newly started SME-grants funded by the European Maritime and Fisheries Fund. Networking opportunities for the new set of projects, featuring sectors such as offshore renewable energy, blue bioeconomy, sustainable seafood, green shipping, intelligent ocean, will be created via B2Match tools. The projects will shortly present their concept, product and impact in relation to the EU Green Deal, circular economy, and digitalisation.

Section Chairs

Vincent Favrel, HoU for Sustainable Blue Economy or Luca Marangoni, Deputy HoU, CINEA Representative of DG MARE, t.b.c.

Programme

10.00-10:10 Introduction by the Chairs

10.10-10:20 Policy context – SME grants for the blue and green economy
DG MARE representatives

10:20 – 11:40 Three/four thematic sessions are planned to give the projects the possibility to shortly present their projects by answering to specific questions of the moderators.

11:40 – 12:00 break

12:00 – 13:00 The projects coordinators will be divided into groups and will engage with the audience describing in more details their solutions. CINEA representatives will moderate the discussions

13:00 – 13:20 Moderators will report on the discussions of the different groups.

13.20 Discussion and Closure (by the chairs)

10:30 - 13:00

Diotallevi 1 Room South
Hall**WASTE MANAGEMENT
AND VALORIZATION**
Ecomondo Event

Closing the loop: tools and actions for boosting the secondary raw materials

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee and Utilitalia

Good separate collection (in quantitative and qualitative terms) and an adequate capacity of recycling, recovery and disposal facilities, are absolutely necessary but not sufficient conditions to close the waste management cycle. The "loop" can only be closed with the return into the production cycles of the material and energy resources present in the waste. Without adequate demand for secondary raw materials and products obtained from waste recovery, the transition to the circular economy risks not being completed, compromising the great transformation effort of the national industry. The conference aims to illustrate and discuss with some of the main European and national players, innovative proposals to support the demand for secondary raw materials and products obtained from waste recovery, through the adoption of incentive economic tools and measures.

Section chair

Coordinator of the Separate collection and recycling of municipal waste Commission of Utilitalia

Program

10:30 Introduction by the Chair
Coordinator of the Separate collection and recycling of municipal waste Commission of Utilitalia

10.45 The enabling tools and measures

Utilitalia, Environment Sector – The needs of the sector
ENEA (circular economy efficiency certificates)
Advisor Company (circular economy efficiency certificates)

11.30 The European point of view

Euric (Confederation of the European recycling industries)
European Commission DG-ENVI

12:00 Round Table

REF Ricerche
Italian Ministry of Environmental Transition
GSE (national institute for achieving environmental sustainability through renewable sources and energy efficiency)
ARERA (Italian Regulatory Authority for Energy, Networks and Environment)
CONAI (National Packaging Consortium)

12:45 Conclusions by Utilitalia

14:00 - 17:30

Ravezzi 2 South Hall

**STAKEHOLDER EVENTS
IN COOPERATION
WITH THE EUROPEAN
COMMISSION***Ecomondo Event*

Enhancing circularity through waste prevention, repair and re-use: a key priority topic in the new LIFE 2021-2027

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and the European Climate, Infrastructure and Environment Executive Agency (CINEA)

Opportunities provided by the higher levels of the Waste Framework Directive, such as waste prevention or re-use of resources, are often untapped. Weak economic viability (also due to lack of economic incentives), 'soft' regulatory requirements and limited awareness of the consumers are only some of the causes. In order to increase circularity the new Circular Economy Action plan strongly emphasises and focuses on Eco-design (and more generally, the so called, Design for the Environment approaches) as well as Re-use and Repair services. LIFE programme has identified such aspects as one of the key priority topics of the sub-programme 'Circular Economy and Quality of Life'.

The session will discuss why such opportunities are still unexploited, what is being done to support them in order to enhance circularity and how the LIFE programme can help related businesses with funding. Successful examples (also financed from LIFE programme) will be showcased.

Section Chairs

Angelo Salsi and Aurelio Politano (CINEA), EU Commission.

Programme

14.00-14.10 Introduction

14.10-14.50 The focus of new CEAP on Eco-design, Re-use and Repair

14.50-15.15 Roundtable/Q&A: is this enough? What more can be done?

15.15-15.30 Break

15.30-16.10 Presentation of 2 success stories

16.10-16.30 How LIFE can help

16.30-17.00 Q&A

Speakers from CINEA, Commission's DGs, companies and relevant associations

14:00 - 17:30

Global Water Expo
Room D2 Pav.**SYSTEMIC WATER
CYCLE MANAGEMENT
AND VALORIZATION***Ecomondo Event - Call for
Papers***Systemic water-smart innovations to accelerate digital and ecological transition
in cities and regions**

Language: Italian

**Organized by: University of Brescia, Water Research Institute, Utilitalia, Marche Polytechnic
University, and Ecomondo Scientific Technical Committee****CALL FOR PAPERS**

A water-smart economy and society is oriented towards avoiding water scarcity and pollution, increasing resilience to climate change and managing water-related risks. This concept includes integration of stormwater, groundwater, wastewater management and water supply to cope with societal challenges related to climate change, resource efficiency and energy transition, to minimise ecosystem degradation and to improve recreational appeal in urban areas. Support EU Competitiveness, green jobs, and reduction of the emissions require investment in circular processes and water efficiency through digitalisation to reduce diffused pollution, over-abstraction of water and chemicals use, as leakage control. The conference will deliver a new vision in evaluating gains in water-smartness and sustainability at different scales. It will also demonstrate a range of promising technologies for water reuse, nutrient recovery, sludge minimization as well as smart data applications for more efficient resource allocation and use.

Section Chairs

Giorgio Bertanza University of Brescia,
Camilla Braguglia, Water Research Institute
Tania Tellini/Renato Drusiani, Utilitalia

Programme

14.00 Introduction by the Chairs

14.20-14.40 Digital Water Cities: Digital Innovation Results in Berlin, Paris, Copenhagen, Sofia and Milan
Nicolas Caradot – Coordinatore H2020 DWC – Berlin Competence for Water -

14.45-15.00 Water from Integrated Waster Service as renewable heat source for city climatization
Representative of Metropolitane Milanesi

15.05-15.20 Innovative technologies for predictive asset management on aqueduct networks
Maurizia Brunetti – Hera S.p.A. Water sector management

15.25-15.40 Minimization of the production of sewage sludge
Francesca Portincasa - Director of Networks and Plants Acquedotto Pugliese SpA Bari

15.45-17.00 *Call for papers*

17.00-17.30 Discussion and Closure (by the chairs)

14:00 - 17:30

Biobased Industry Room
D1 Pav.**AGRI-FOOD, FORESTRY
AND BIOBASED
INDUSTRY***Ecomondo Event - Call for
Papers***Biowaste: XXIII Conference on Composting and Anaerobic Digestion. Technical
Session**

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and CIC**CALL FOR PAPERS**

The session will give space to the presentation of research and case studies relating to issues related to the recycling of waste with an organic matrix: the topics include the characterization of the input matrices, the optimization of recycling processes from the point of view of the circular economy, use organic fertilizers, biomethane and other products that can be generated from the valorisation of waste

Program to be defined

14:00 - 17:30

Neri 1 Room South Hall

**WASTE MANAGEMENT
AND VALORIZATION***Ecomondo Event: Policies
& Regulations***Waste Management and regulatory changes 2021**

Language: Italian

Organized by: **Ecomondo Scientific Technical Committee and Edizioni Ambiente and Magazine "Waste - Regulatory Information Bulletin"**

The legislative dynamism characterizing the waste management, could disorient businesses and public administration. The Magazine "Rifiuti – Bollettino di informazione normativa" offers again this year, in Ecomondo, the usual overview of the most important legislative and regulatory changes that, during 2021, were added on an already arduous operational scenario. Besides the novelties, however, some less recent topics that reached, over the years, a certain grade of complexity in the application, will be deeply analyzed. Therefore, the necessary insights that the discipline's complexity always requires are also carried out.

Section ChairPaola Ficco Director of the Magazine "*Rifiuti – Bollettino di informazione normativa*"**Programme**

14.00 Waste management: The new "Environmental Code" and the problem of maintenance

Paola Ficco, Rifiuti Magazine Director

14.20 Temporary storage and construction and demolition waste: opportunities and prospects

Laura D'Aprile, Director General for the Circular Economy (ECI) Ministry of Ecological Transition

14.40 AIA and penal system

Pasquale Fimiani, Deputy Attorney General of the Court of Cassation

15.00 Waste classification: the disorientation of companies and laboratories and the things yet to be understood

Claudio Rispoli, Chemist, ADR Expert

15.20 REN - National electronic register: state of the art

Daniele Bagon, Register of Environmental Operators, Liguria Regional Section

15.40 Landfills: The new Legislative Decree 36/2003 and the accredited laboratories

Rosanna Laraia, Ecomondo Scientific Technical Committee

16.00 End of Waste, the sample control system

Daniele Salvatori, Arpae Emilia-Romagna

16.20 The technical manager, between news and perspectives

Eugenio Onori - President of the National Register of Environmental Managers

16.40 The case of compost

Loredana Musmeci, Chemist;

17.00 Environmental protection: between crime and the market

Massimiliano Corsano, Commander of the Milan CCTA

14:30 - 17:30

Monitoring & Control
Room C2 Pav.**MONITORING &
CONTROL***Ecomondo Event - Call for
Papers*

Air pollution: the situation, control measures, risks and prevention policies

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Higher Institute of Health**CALL FOR PAPERS**

The conference aims to create a meeting time to provide a picture of the last year experiences and programs carried out on the complex issue of air pollution. The conference aims to discuss the various technical and health aspects related to air pollution, to provide knowledge of the related problems and the possible solution/mitigation and to contribute to broadening the scientific debate on this issue.

Section Chairs

Gaetano Settimo, Higher Institute of Health
Gianluigi De Gennaro, University of Bari

Program

- 14.30 Introduction by the Chairs
- 14.50-15.10 Ministry of ecological transition
- 15.10-15.30 Ministry of Health
- 15.30-15.40 tbd
- 15.40-16.00 tbd
- 16.00-16,20 tbd
- 16,20 Presentation of the selected papers submitted
- 17,00 Discussion and Closure

14:30 - 17:30

Diotallevi 2 Room South
Hall

BLUE GROWTH
Ecomondo Event

Unlocking the potential of Ports and Harbours in preventing and reducing the effects of Marine Litter

Language: Italian

Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, Blue Sea Land, Cluster BIG, Federpesca, CNR, BLUEMED GSOs

European, National and Regional policy instruments have been developed to prevent and reduce the environmental and socioeconomic impact due to the mismanagement of waste coming from marine and coastal activities. With the aim to close the loop of maritime waste cycle, specific actions to address waste prevention and waste delivery in harbours have been proposed and here showcased. EU Directive 2000/59/EC on port reception facilities (PRF) for ship-generated waste and cargo residues obliges Member States to ensure the availability of adequate port reception facilities so as to reduce the discharges of ship-generated waste and cargo residues into the sea. Harmonisation of the waste disposal rate structure provisions in the PRF Directive could be helpful to enhance the effectiveness of the instrument. The Commission also supports the implementation of the flagship Directive on Single-Use Plastics (SUP) in line with the EU Green Deal and the circular economy package.

Anyway, many gaps for the implementation of solutions still need to be identified and specifically addressed to build a systemic strategy from European to local scale.

Section Chairs

Luigi Giannini, Federpesca;
Nino Carlino, Blue Sea Land,
EU Commission,
BLUEMED delegate

Programme

Session I

From EU to National Directives: implementation of EU legislation related to marine litter in ports and harbours

Session Chairs: L. Giannini, Federpesca, Nino Carlino, Blue Sea Land

14.30 – 14.45 Back-to-back outcomes of the Venice Bluemed Pilot Event
Fabio Fava, Italian BlueMed GSO WG's delegate

14.45-16.15:

The process of revising the waste legislation at EU level

- DG Mare
- DG ENV

Roundtable: MED Bottlenecks in ports and their hinterland due to inadequate policies, infrastructure or services

- Assoport
- CEPESCA
- Federpesca
- Pole Mer Mediterranee, France (*tbc*)
- UTAP, Tunisia *tbc*
- Greece (*tbc*)
- GFCM (*tbc*)

Session II

16.15-17.20: Innovation towards good performing ports across all maritime regions: Projects and Initiatives

Chairs: EU Commission (DG RTD), CNR (Fabio Trincardi)

- Fishing for litter

Mediterranean Case studies

- From waste to resource: Building frameworks for circular economy

Mediterranean Case Studies

Circular economy solutions for aquaculture and fish processing industry

Mr. Benoit Wuatelet, Team leader Blue Economy SwitchMed, UNIDO

17.20-17.30 Conclusions by the chairs

THURSDAY 28 OCTOBER

09:30 - 11:30

Monitoring & Control
Room C2 Pav.

**BEACON
CONFERENCES**
Ecomondo Event

IAP Zero Pollution, towards a Healthier Planet for Healthier People

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, Federchimica, ISPRA

Starting from a general overview of the Green New Deal, the Workshop aims to explore the resulting actions that affect many areas of the life of European citizens and companies operating in EU. Given the objective that the European Commission has set itself by adopting, in 2021, the action plan "Towards a Zero Pollution Ambition for air, water and soil – building a Healthier Planet for Healthier People" there are several factors at play. For example, although the essential role of chemicals for the well-being is recognized at the EU level, in the high standards of living and comfort of modern society, critical issues in manufacturing and use are also reported. So, even though the EU has already sophisticated laws on chemicals, it intends to manage them with further provisions that will need to be carefully evaluated both for the benefits they should bring but also for the impacts they could also have on businesses.

The event will show the different implications of the Action Plan priorities and actions recommended.

Section chair

Representative of Ministry of Economic Development

Agenda

9.30 Introduction

9.40-9.55 The Green new deal towards the zero pollution ambition
Representative of the European Commission

9.55-10.10 The Chemical Strategy for Sustainability: a source of other initiatives including the Sustainable Product Initiative
Representative of Cefic

10.10 – 10.25 Challenges arising from a complex strategic European framework:

10.25-10.40 National policies for Zero Pollution
Representative of Ministry of the Ecological Transition

10.40-10.55 The environmental framework and the Zero Pollution ambition
Representative of ISPRA

10.55-11.10 Zero Pollution and public health
Representative of Ministry of Health

11.10-11.25 Challenges and opportunities for industry, first considerations
Representative of Federchimica

11.25-11.40 Discussion and closing remarks

09:30 - 12:30

Workshop Room D3 Pav.

**WASTE MANAGEMENT
AND VALORIZATION***Ecomondo Event: Policies
& Regulations*

Impact assessment of the start of the regulation on the waste management companies and perspectives on the new regulatory measures

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Utilitalia

In 2021 the regulatory activity concerning municipal waste management was marked by some very important measures: tariff regulation for treatment plants, the application of national criteria concerning technical quality and contracts, the updating of the Tariff Method for Waste, consistently with the principles of transparency and an efficient and effective allocation of public resources deriving from tariffs charged to users. The conference aims to make an impact assessment of the regulatory measures on operational activity and investment programs of the waste management companies. An analysis of the scope of the most recent regulatory measures will also be carried out.

Section chair

Coordinator of the "Tariff systems and Regulation Commission" of Utilitalia

Programme

9:30 Introduction and coordination by the Chair

Coordinator of the "Tariff systems and Regulation Commission" of Utilitalia

9:45 State of progress of waste management regulation in Italy

Representative of Utilitalia

10:15 Evaluation of the new regulatory measures

Representative of Italian Regulatory Authority for Energy, Networks and Environment (TBC)

Representative of Utilitalia

Representative of National Association of Italian Municipalities (TBD)

Representative of National Association of Territorial Government Authority (TBD)

11:15 The new regulatory measures: round table with the point of view of waste management companies

Moderator: Representative of Utilitalia Regulation Office

The point of view of municipal waste management companies, different by reference territory, corporate structure and level of integration along the supply chain

12:15 **Conclusions by** Utilitalia

09:30 - 13:00

Gemini Room C3 Pav.

**CIRCULAR ECONOMY
VALUE CHAINS:
REINFORCE SYSTEMS
AND CLUSTERS**
Ecomondo Event

Circular economy: one of the aspects of articulation of the value chains in the built environment supply chains

Language: Italian

Organized by: Ecomondo Technical Scientific Committee, ANPAR, GBC Italia

Construction must be completely rethought as a whole and in all its phases (design, construction, maintenance, end of life), also in consideration of its inclusion among the priority sectors of the measures provided for in the European Green Deal. The change is requested by the Next generation EU program, but it is already underway in some countries of the world and partly also in Italy (with Milan as the absolute protagonist). The possibility of obtaining funding from the European Union will be a further lever, but the change must be integral and coordinated by the Public Administration, which must be ready. The various protocols of the Green Building Council, like the other existing ones, can be a valid tool for evaluating the sustainability of the new building, but also of the maintenance and demolition works of buildings. We believe that the measures and interventions concerning infrastructures and their design, construction and maintenance methods must be shared between the ministries of ecological transition, economic development and infrastructure. The round table will be useful to verify the sharing of this approach and what is being done concretely to deeply rethink the way of building.

Section chair

Giorgio Bressi - ANPAR

Program

9.30-9.45 Presentation by Marco Mari - GBC Italia

9.45-10.15 The European reference framework for sustainable construction
*Representative of DG Env European Commission*10.15-10.30 Circular Design
*Representative of OICE*10.30-10.45 Circular construction
*Representative of REEDS*10.45-11.00 GBC Italia protocols for assessing the sustainability of buildings and the built environment
*Marco Caffi - GBC Italy*11.00-11.15 The Envision protocol to evaluate the sustainability of infrastructures
Lorenzo Orsenigo - ICMQ

11.15-12.45 Round table moderated by Roberto Coizet – Edizioni Ambiente

Participants:

*Laura D'Aprile - Ministry of Ecological Transition**Superior Council of Public Works**Marco Leonardi - Presidency of the Council of Ministers - CIPRESS**Alessandro Bratti - ISPRA**Marco Mari - GBC Italy**Paolo Barberi - ANPAR**Fabio Sanfratello - ANCE**Stefano Ciafani - Legambiente*

12.45-13.00 Conclusions by Roberto Cingolani Minister of Ecological Transition (TBC)

09:30 - 17:30

Ravezzi 2 South Hall

BLUE GROWTH
Ecomondo Event

Unlocking Opportunities for a Sustainable Blue BioEconomy

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee and CINEA (Sustainable Blue Economy Unit)

The blue bioeconomy sector has high potential in contributing not only to blue growth but also in supporting a green transition for industries. This one-day thematic workshop is organised in the context of the BlueInvest platform and shall bring together entrepreneurs, corporates, investors and stakeholders from the blue bioeconomy. It shall look into areas where European innovation can have a competitive advantage and potentially transform industries. The activities will tackle the several areas as, for instance, algae, novel foods, nutraceuticals, food additives and animal feeds, pharmaceuticals and cosmetics, green chemicals and materials, enzymes for green industrial processing or decontamination.

Section Chairs

Vincent Favrel, HoU for Sustainable Blue Economy or Luca Marangoni, Deputy HoU, CINEA
Representative of DG MARE, t.b.c.

Programme

09:30 – 09:45 OPENING SESSION**Welcome remarks by** Representative, European Commission and Representative, BlueInvest**09:45 – 10:45 RETHINKING THE GREEN – BLUE BIOECONOMY**

Moderated panel format, with Q&A. Four key stakeholders from Europe's blue bioeconomy sector shall present market opportunities and the most recent innovation trends in this sector.

10:45 – 11:45 FINANCING A SUSTAINABLE BLUE BIOECONOMY

Moderated panel format, with Q&A. Representatives from corporate, private and public investors, international initiatives and policymakers shall discuss the state of play for financing the green – blue bioeconomy, and present use cases that could model a way forward.

11:45 – 12:30 INVESTOR SPOTLIGHT

Moderated panel format, with Q&A. Up to five corporate and impact investors, venture capital and accelerators focused on blue bioeconomy sectors shall be invited to do a reverse pitch.

13:30 – 15:30 PITCH SESSION

Up to 10 high potential companies and projects from the blue bioeconomy sectors shall be invited to pitch to an audience of investors, venture mentors and coaches. The selected pitch candidates shall be provided with training and feedback prior to the session.

15:30 – 17:30 B2B MATCHMAKING SESSION

The BlueInvest team will facilitate 1:1 meetings for attendees of the workshop.

09:30 - 18:00

Tiglio Room A6 Pav

**WASTE MANAGEMENT
AND VALORIZATION***Ecomondo Event - Call for
Papers*

New management options and assessment tools to accelerate the transition towards circular economy

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, Italian Chemical Society – Division Environmental and Cultural Heritage Chemistry, ATIA – ISWA, Italian LCA Network – WG Waste Management and Treatment

CALL FOR PAPERS

The commitment recently undertaken by the European Union through the initiative called “Green Deal”, to tackle climate and environment-related challenges, requires a decisive action towards a significant reduction and a proper management of waste, to avoid or minimize its environmental impact.

In the meanwhile, the health emergency relating to the COVID-19 pandemic resulted in significant changes in the amount of generated waste (a decrease especially due to the partial suspension of economic activities), in its composition (an increase in disposable plastic for safety reasons, e.g. facemasks and gloves), and in management methods (with a higher probability of infection risks related also to urban waste).

Considering both the long-term targets and the contingent events, this seminar wishes to present innovative initiatives and projects of waste prevention and management, tools for good practices application, methods for the measurement of impacts from a “life cycle” perspective, models for the quantification of material flows and the evaluation of system circularity, case studies of environmental, economic and social sustainability assessment.

Section Chairs

Fabrizio Passarini (University of Bologna)
Lucia Rigamonti (Polytechnic University of Milan)
Fabio Iraldo (Sant'Anna School of Advanced Studies of Pisa)
Danilo Bonato (D.G. Erion)

Programme

9.30-9.45 Introduction by the Chairs and a short summary on the papers presented through posters

9.45-10.30 Invited lectures

9.45-10.00 *ViVACE: a visualization model to manage transition processes in the companies and reach the targets of circular economy*

Augusto Bianchini (Università di Bologna)

10.00-10.15 *Waste Electrical and Electronic Equipment (WEEE): treasures to recover! LIFE Project WEEE*

Elena Conti (ANCI Toscana) (TBC)

10.15-10.30 *Training, education and communication to reduce food waste in the food service industry – LIFE Project FOSTER*

Monica Verzola (ENAIIP Milano) (TBC)

10.30-13.00 *Presentations selected from the Call for papers*

13.00-14.00 Break

14.00-15.00 Invited lectures

15.00-17.15 *Presentations selected from the Call for papers*

17.15-17.30 Discussion and Closure by the Chairs

09:45 - 13:00

Diotallevi 1 Room South
Hall**BEACON
CONFERENCES***Ecomondo Event - Call for
Papers***Caring for soil is caring for life: soil health policies and innovation**Language: Italian
Simultaneous translation: English**Organized by: Ecomondo Scientific Technical Committee, European Mission for Soil Health and Food, Re Soil Foundation, Coldiretti**

Life on Earth depends on healthy soils. The soil under our feet is a living system – home to many fascinating plants and animals, whose invisible interactions ensure our well-being and that of the planet. Soils provide us with nutritious food and other products as well as with clean water and flourishing habitats for biodiversity. At the same time, soils can help slow the onset of climate change and make us more resilient to extreme climate events such as droughts and floods. Soils preserve our cultural heritage and are a key part of the landscapes that we all cherish. Simply put, healthy living soils keep us, and the world around us, alive. Although we pay very little attention to soil, which is a fragile resource that needs to be carefully managed and safeguarded for future generations. One centimeter of soil can take hundreds of years to form but can be lost in just a single rainstorm. Even where soil degrades more slowly hidden beneath our feet, the effects are severe and difficult to reverse. 60-70% of EU soils are unhealthy, 25% of land are at high or very high risk of desertification in Southern, Central and Eastern Europe. It is estimated that the costs associated with soil degradation in the EU exceed 50 billion € per year. All this not only affects our economy, but also safe food production and what nature provides for humanity to survive. The European Commission Mission's goal is that by 2030, at least 75% of all soils in each EU Member State are healthy or show significant improvement. So, we need to act now!

The conference will offer an overview of the evolution of strategies and policies closely related to soil health and will show case studies of how a regenerative agriculture and the circular bioeconomy, which see their starting and ending point in the soil, represent an essential tool for reversing the course of soil degradation, creating value in the territories.

Section Chairs

Kerstin Rosenow, Head of Unit Research and Innovation, DG AGRI (TBC)

Programme

9.45 Welcome by the Chair

9.50 *Italian Ministry of Agricultural, Food and Forestry Policies (TBC)*10.00 *Andrea Tilche, Italian Ministry of Ecological Transition*10.10 *Angelo Riccaboni, national representative of the Mission Soil Health and Food (TBC)***10.20 Soil Health and Food policy framework**The European Mission Soil Health and Food
*Catia Bastioli – Member of the EC Mission Board for Soil Health and Food (TBC)*The Farm to Fork strategy within the new Common Agricultural Policy
*Nathalie Sauze-Vandevyver - Director of Quality, Research & Innovation, Outreach at the European Commission, DG Agriculture and Rural Development (TBC)*Soil care in the Biodiversity Strategy 2030
*César Luena, MEP, rapporteur of the Parliament on Biodiversity Strategy 2030 (TBC)*Circular bioeconomy as an essential tool to create value reversing the course of soil degradation
*John Bell - Healthy Planet Director DG Research & Innovation (TBC)*The European Action Plan for organic farming
*Eduardo Cuoco – Director of IFOAM EU (TBC)*New funding opportunities in sustainability and biodiversity
*Marco Falzetti, Director of the Agency for the Promotion of European Research (APRE) (TBC)***11.20 Research and innovation networks for soil quality**The regenerative movement Kiss The Ground
*Representative of the movement (TBC)*The lighthouse farm project
*Representative of Wageningen (TBC)*The community hub for all things soil: the lighthouse network in UK
*Representative of UK Soils (TBC)*Regeneration for clean and healthy soil: the Italian case history
*Roberto Moncalvo Re Soil Foundation (TBC)****Call for papers: the most innovative solutions for soil health and food Pitch (5 min each)****12.40 Conclusion by the chair**

***Call for papers: the most innovative solutions for soil health and food**

Farmers and researchers from all over Europe will be selected to present their case histories by an interdisciplinary scientific committee within the Scientific Technical Committee of Ecomondo and the ReSoil Foundation on the basis of:

- GOOD AGRONOMIC PRACTICES to improve the quality of the soil and the environment according to the objectives outlined by the Mission Board*
- INNOVATIONS: practices and systems adopted and / or collaborations with research centers / universities, companies, funded projects
- ACHIEVED SUCCESSES: through quantification (costs-benefits, risks-opportunities), monitoring and possibility of up-scaling
- ENVIRONMENTAL AND SOCIO-ECONOMIC EFFECTS OF PRACTICES AND / OR INNOVATIONS
- COMMUNICATION AND AWARENESS ACTIVITIES within the territories and communities

*For more information see the Mission Board final report "Caring for soil is caring for life"

10:00 - 13:00

Neri 1 Room South Hall

**WASTE MANAGEMENT
AND VALORIZATION**

*Ecomondo Event: Policies
& Regulations*

End of Waste: case by case permit and the monitoring system

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & ISPRA

The Law 128/2019 introduced the possibility to issue authorizations pursuant to Articles 208, 209 and 211 for carrying out the recovery operations resulting in end of waste, when in absence of specific national criteria.

Paragraph 3-ter establishes a monitoring system of the plants authorized "case-by-case" assigning the competence to the Italian National System for Environmental Protection (SNPA).

The day represents an opportunity to evaluate the application of the Law, the critical issues and the solutions adopted during its application.

Section Chair

Valeria Frittelloni, Director of the National Centre of Waste and Circular Economy, ISPRA

Introduction – Marco Lupo, General Director of ARPA Lazio e Vice President SNPA

The framework of National decrees and the implementation of the legislation on authorizations on a case-by-case basis

Pierluigi Altomare, General Directorate for circular economy Ministry of ecological transition

The SNPA Guidelines and the checks carried out by the Network

Francesca Minniti, ISPRA

Some practical cases:

Some examples of "case-by-case" authorizations in Veneto, Regione Veneto

Some examples of "case-by-case" authorizations Emilia Romagna, Barbara Villani ARPAE

The checks carried out in Piedmont, Elena Foddanu, ARPA Piemonte

The checks carried out in Campania, Alberto Grosso ARPA Campania

Conclusions by the Chair

10:00 - 13:00

Biobased Industry Room
D1 Pav.**AGRI-FOOD, FORESTRY
AND BIOBASED
INDUSTRY***Ecomondo Event - Call for
Papers*

Trees, forests and agro-forestry: green infrastructures to support the environment, the economy and the quality of life

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and Confagricoltura, UNITUS**CALL FOR PAPERS**

The Italian National Recovery and Resilience Plan, within the broader Next Generation program for Europe, definitely recalls the importance of reforestation, ecological restoration of natural environments and landscapes and forest infrastructures in urban and rural environments, as fundamental objectives for the ecological transition of our country, and of Europe as a whole. The European target of planting billions of trees is identified as an essential tool for a win-win strategy, to achieve at the same time an effective mitigation of climate change, the conservation and recovery of biodiversity, and a better quality of life and human health. Among the priority areas to be ecologically restored there are certainly lowland environments, coastal areas, and wetlands and riparian ecosystems, all areas where agroforestry, afforestation and green infrastructures will be able to make a decisive contribution to the achievement of the objectives of the European Green New Deal.

Section Chairs

Giuseppe Scarascia Mugnozza University of Viterbo, La Tuscia
Enrico Allasia Presidente FNP risorse boschive Confagricoltura

Programme

10.00 Introduction

Giuseppe Scarascia Mugnozza UNITUS

10.20 Green and Forest Infrastructures: environment, climate, economy

Alessandra Stefani - Ministry of Agriculture

10.40 Ecological Restoration and Afforestation

Renzo Motta Università di Torino/SISEF

11.00 Lowland Forests and Agro-forestry

Representative of Veneto Agricoltura

11.20 Planning Forest Infrastructures

Representative of Conaf

11.40 Tree planting design and selection of tree species

Representative of Vivaisti Confagricoltura

12.00 Implementation and management of forest infrastructures

Representative of Assoverde

12.20 Afforestation, human health and quality of life

*Representative of CNR/ISS/CURSA*12.40 *Green financing* and support to afforestation projects in urban and rural areas*Representative of Fondazione Albertalia*13.00 *Case studies from call for papers*

13.20 Conclusions

Representative of Confagricoltura

10:00 - 13:00

Reclaim Expo Room C1
Pav.

**BIOREMEDIATION
AND SITE
REQUALIFICATION**
Ecomondo event

Ecological transition and Recovery Fund in the remediation and redevelopment of contaminated sites in Italy

Language: Italian

Some introductory reports will be provided by invitation, by the Administration or Public Institutions considering the community guidelines for the transition to the circular economy. A round table will follow with the possibility of interaction with the public.

Section Chairs:

Marco Petrangeli Papini, University of Rome "La Sapienza"
Donatella Giacometti, UNEM
Giorgio Zampetti, Legambiente

10.00 - 10.15 Introduction by the Chairs

10.15 - 10.30 Institutional intervention (MINISTRY OF ECOLOGICAL TRANSITION / ISPRA)

10.30 - 10.45 University / research intervention

10.45 - 11.00 Trade association intervention

11.00-11.15 Intervention by the environmental association

11.30 - 12.50 Round table with Legambiente, trade association, client companies, environmental operators, MINISTRY OF ECOLOGICAL TRANSITION and ISPRA / SNPA representative

12.50 - 13.00 Conclusions

10:00 - 13:30

Ravezzi 1 Room South
Hall**BEACON
CONFERENCES**
Ecomondo Event

Investing in the creation of new firms, SMEs and startups

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and ART-ER

The beacon conference will focus on financial instruments to support SMEs, Start-ups and new firms in their green growth and sustainable investment. Alternative finance market - that is, alternative financial instruments to traditional bank credit - a gradually growing market - will be presented too. These are tools that offer SMEs, Start-ups and new firms wishing to undertake investment and growth paths different opportunities and that, in addition to allowing one diversification of the company's sources of financing can contribute in a way significant to increase the visibility of the company and to encourage and the entry of new investors.

The conference will be an opportunity for a discussion with experts in the field and to hear from some testimonials from companies that have decided to use these tools.

Section Chair

Representative of ART-ER

Programme

10.00 Introduction

10.20-10.35 *Representative of Italian Ministry of Ecological Transition*

10.35-10.50 *Representative of BEI*

10.50-11.05 *Representative of Innovation Fund*

11.05-11.20 Green Bond metrics - Europe-Italy interface reading
Francesco Biciato - Forum Finanza Sostenibile

11.35-11.50 Invest in strategic technologies in the national interest to foster and anticipate radical technological transformation as the "golden power"
Representative of ENEA Tech

11.50-12.05 *Italian Deposit and Loan Fund (tbc)*

12.05-12.20 *INTESA SANPAOLO - Massimiano Tellini - Director, Global Head - Circular Economy, Intesa Sanpaolo Innovation Center, Partner CE Lab.*

12.20-12.35 Regional finance instruments (tbc)

12.35-12.50 Investors and sustainable investment
Federica Lolli - Doorway platform co-founder and Business Angel

12.50-13.05 Loans, incentives and programs to support the innovation of energy companies
Energy & Strategy Observers- Politecnico di Milano

13.20 **Discussion and Closure (by the chair)**

10:00 - 13:30

Global Water Expo
Room D2 Pav.**SYSTEMIC WATER
CYCLE MANAGEMENT
AND VALORIZATION**
Ecomondo Event

Linking recovery fund to regulation and long-term sustainable finance: how are we supporting climate neutral and circular water-smart economy? European case studies and innovations

Language: Italian

Organized by: European Water Regulators (WAREG), Ecomondo Scientific Technical Committee, UTILITALIA, REF Ricerche

According to an OECD study**, the current capital expenditure only in the drinking water and wastewater industry in the 27 EU Member States is EUR 85 billion per year, with an estimated investment gap of more than EUR 25 billion per year until 2030 to fulfil all the requirements of the EU legislative acquis on water. Additional challenges are related to the achievement of the ambitious Green Deal objectives and the strategies to strategically benefit of the "Next Generation EU" plan. The workshop will provide an overview of relevant EU and national public and private investments tools in place or under development to ensure a full transition to ecological and carbon neutrality by 2050.

Section Chairs

Andrea Guerrini – WAREG – Ecomondo Scientific Technical Committee

Samir Traini – REF Ricerche

Programme

10.00 Introduction by the Chairs

10.20 Climate Bank Roadmap – EIB's support to climate action and environmental sustainability
Representative of European Investment Bank (TBC)

10.40 EU taxonomy in the water services: how to align with the new paradigm to finance "green" investments in the water sector
Samir Traini, Laboratorio SPL REF Ricerche

11.00 Digitalization and metering in Italy: state of the art and economic incentives and tools to enhance water infrastructures and consumption knowledge.
Andrea Guerrini, ARERA

11.20 – Q&A and discussion

11.30 Break

11.40 Linking regulation and innovation in water services: best practices and strategies from local governance.
Autorità Idrica Toscana (TBC)

12.00 Green bonds – Italian case studies
Representatives of VIVERACQUA and IREN

12.40 Regulating choices for improving or promoting circular economies in water services: an analysis of Florence School of Regulation on WAREG regulators experience.
Maria Salvetti, Florence School of Regulation (FSR)

13.00 IV Report on Natural Capital
Riccardo Santolini, University of Urbino

13.20 – Q&A

13.40 **Discussion and Closure (by the chairs)**

10:00 - 13:30

Diotallevi 2 Room South
Hall**CIRCULAR ECONOMY
VALUE CHAINS:
REINFORCE SYSTEMS
AND CLUSTERS***Ecomondo Event*

CITIZENS MATTER. The role of people in the sustainable transformation of packaging processes

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, Italian Cluster "Made in Italy", University of Bologna

The Observatory in Packaging Innovation of the University of Bologna focuses its attention on a key link in the value chain, the consumers of packaged products: by driving innovation, in fact, citizens can significantly change the sustainability outcome of the sector and, at the same time, they can influence the behavior of every other actor in the chain.

Awareness and knowledge are at the basis of a feeling of co-responsibility and participation that can be activated in citizenship, all fundamental themes for closing the circle. If we manage to treat packaging with the appropriate importance, it can once again become a fantastic opportunity for post-industrial society and can make up for the Anthropocene. For this reason, packaging is not only an issue with problems that seek answers from the industrial, chemical, graphic-communication, process and logistics sectors, but it is also a problem linked to our behaviors, and must become a collective opportunity.

Which realities point the way? Which virtuous cases can inspire us? Which companies have understood this process? In which cities do Public Administrations encourage, incite and form these consciences?

The event will analyze the key role of citizens in the sustainable transformation of packaging processes together with companies, associations, consortia, institutions and researchers.

Section Chair

Flaviano Celaschi, Italian Cluster Made in Italy

Programme

10.00-10.10 Introduction to the Conference: Presentation and ongoing research methodologies
Flaviano Celaschi, Italian Cluster Made in Italy

10.10-10.25 Why Citizens Matter: dynamics of people engagement for the sustainable transformation of packaging processes
Clara Giardina, Advanced Design Unit - Alma Mater University of Bologna

10.25-11.20 Awareness and Responsibility

Representative of Conai

Matteo Locatelli, Cosmetics Italia - Vice president

Filippo Montalbetti, Tomra -Circular Economy, Vice President Governmental Affairs Central Europe TBC

11.20-12.15 Infrastructure and Engagement

Paola Dubini, Asvis -Coordinator of the Working Group Culture for sustainable development TBC

Saverio Massaro University of Basilicata

Milena Zappoli, Hera -Head of Innovation and standardization of processes, technologies, information systems and engagement initiatives

12.15-13.10 Ethics and Collaboration

Representative of Ethical Packaging Charter Foundation

Lucia Lamonarca, Marketing Consultant

Representative of Urban Innovation Foundation

Mauro Bigi, Coordination of sustainability and accessibility

Altroconsumo, TBC

13.10-13.30 Q&A, Discussion and Closure (by the chairs)

14:00 - 17:30

Reclaim Expo Room C1
Pav.**BIOREMEDIATION
AND SITE
REQUALIFICATION***Ecomondo Event - Call for
Papers*

Sustainable strategies for the remediation of polluted sites: virtuous examples and recent developments in national and international applied research

Language: Italian

CALL FOR PAPERS

The conference will be more specifically dedicated to the remediation technologies, with case studies that highlight their actual extent and their limits. The interventions will be fully selected by the call for papers. In recent years, scientific research has allowed significant improvement both in the understanding of the dynamics of contamination and in the development of appropriate technologies for the characterization and remediation of polluted sites. There are notable developments in the field of "sustainable" remediation technologies, a term which in the case of remediation often coincides with that of "effective".

Interventions selected from the call for papers.

14.30 - 14.45 introduction by the Chairs

14:45 - 16:45 Speeches from the Call for Papers

16.45 - 17.00 Debate and conclusions

14:00 - 17:30

Gemini Room C3 Pav.

**CIRCULAR ECONOMY
VALUE CHAINS:
REINFORCE SYSTEMS
AND CLUSTERS***Ecomondo Event- Call for
Papers*

Eco-innovative solutions for the valorization of End-of-life tyre and rubber-based production residues

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and FISE Unicircular sect. Unirigom**CALL FOR PAPERS**

Tyres and automotive component applications, which represent overall about 75% of the rubber demand at the European level, makes very little or no use of reprocessed rubber feedstock, mainly for technical issues. Reclaimed rubber from End-of-Life Tyres (ELT) recycles and grounded rubber production waste are used at very low concentrations (3%-5%) for the manufacturing of tyres. The increasing cost of raw materials and the environmental issues related to their consumption, could push the material recycling rate of rubber waste, turning derived rubber materials into valuable substitutes of virgin polymers in the production of rubber. Thus, while reducing raw material costs, decreasing CO2 and improving carbon and material footprint, material recycling and upcycling is helping mindful companies to improve their product sustainability and profitability through its ecologically sound products and innovative principles.

Section Chair

Andrea Fluttero - President of FISE Unicircular sect. Unirigom

Programme

14.00 Introduction by the Chair (and a short summary on the papers presented through posters)

14.20 - 14.40. *Representative of Assogomma*

14.40 - 15.00. Rubber Conversion

Life Green Vulcan: High performance devulcanized masterbatches for End-of-Life Tire reuse in high-volume technical compounding applications

15.00 - 15.20 ELT selective devulcanization and conversion to advanced fuels by energy self-sustainable and low-impact DES+™ process *Representative of Acea Ambiente/Politecnico Milano/ Microgomma*

15.20 - 15.40 Call for Papers

17.00 **Discussion and Closure (by the chairs)**

14:00 - 17:30

Ravezzi 1 Room South
Hall**WASTE MANAGEMENT
AND VALORIZATION**
Ecomondo Event

A roadmap towards sustainable waste management practices worldwide

Language: English
Simultaneous translation: ItalianOrganized by: **International Solid Waste Association, supported by Ecomondo Scientific Technical Committee**

In 2015, the Global Waste Management Outlook (GWMO) by UNEP and ISWA provided a scientific global assessment on the state of waste management and a call for action to the international community. The GWMO estimated that 2 billion people worldwide lacked access to a basic waste collection service, while around 3 billion lacked access to controlled disposal services for municipal solid wastes. The first two Global Waste Management Goals were to ensure by 2020 access for all, to adequate, safe and affordable solid waste collection services; and to stop uncontrolled dumping and open burning. The remaining Global Waste Management Goals, by 2030 we should see a substantial reduction in waste generation through prevention and the 3Rs (reduce, reuse, recycle), thereby creating green jobs; and more specifically, cutting by a half per capita global food waste at the retail and consumer levels and reducing food losses in the supply chain.

What is the status now, 6 years since the launch of the report? Publishers from the original report will join the stage to discuss what progress has been made and what the focus for the future should be.

Topics will include the impact of plastics on cities and the influence of climate change on organic waste, the panel discussions will look at the practical side: what are the challenges and issues, but also what solutions and ideas exist and are being implemented. These sessions will consist of experts from Southern Europe and the Mediterranean Basin from the private and public sector.

Section Chairs:

Carlos Silva Filho, ISWA President and CEO of ABRELPE.
Mario Malinconico, ATIA-ISWA.

Programme

14.00 Introduction by the Chairs

14.05-14.35 Opening session
Speakers from UNEP, ISWA, ATIA and Ecomondo

14.35-15.35 Presentation Waste Management Outlook
United Nations Environment Programme (UNEP) – speaker to be confirmed

15.35-16.05 Q&A

16.05-16.20 Break

16.20-16.55 Panel discussion Organic Waste and Climate Change

16.55-17.30 Panel discussion Cities and Plastics

17.30 **Discussion and Closure (by the chairs)**

14:00 - 18:00

Biobased Industry Room
D1 Pav.**AGRI-FOOD, FORESTRY
AND BIOBASED
INDUSTRY**
Ecomondo Event

PHA from waste and wastewater: drivers and constraints to the market

Language: Italian

Organized by: Ecomondo Scientific Technical Committee

PHAs are microbial polyesters and completely biodegradable in the environment. Although available for decades on the market, but at rather high costs, in more recent years they have been "discovered" starting from the evidence that PHA can be synthesized using mixed microbial cultures easily obtainable from wastewater treatment plants and using organic waste and/or sludge as a feedstock. This makes PHA particularly interesting both to better enhance these waste, in full harmony with the development of the bioeconomy and the circular economy, and to contribute to the European Plastic Strategy for replacing fossil-based plastics. The numerous experiments carried out so far at the pilot scale, especially in Italy, have shown the technical feasibility of the technology and provided the first indications regarding the possible applications of PHA-based bioplastics. Therefore, all that remains is to take the last steps for the complete transfer to the industrial scale and the placing on the market of the PHA-based bioplastics, including regulatory and organizational aspects such as the business models that link together different industrial sectors, the consequent qualification of intermediates and products, the definition of "end of waste" criteria and the definition of "end of life" management systems. On all these aspects, the workshop will offer an opportunity to present the most recent research and innovation experiences and to discuss with various operators in the industrial sectors concerned and public administration

Section Chairs

Mauro Majone, Ecomondo Scientific Technical Committee e Università di Roma "La Sapienza"
Francesco Fatone, Ecomondo Scientific Technical Committee e Università Politecnica delle Marche

Programme

14.00 Introduction by the Chairs

14.20-14.40 Experiences and perspectives on producing PHA from organic waste (provisional)
Mauro Majone, University of Rome "La Sapienza"

14.40-15.00 Experiences and perspectives on producing PHA from urban wastewater (provisional)
Francesco Fatone, Marche Polytechnic University

15.00-15.20 A key-step: how to define "End of waste" criteria for waste-based PHA
Representative of Italian Minister of Ecological Transition (tbc)

15.20-15.40 Biodegradability of PHA and how it fits into the organic recycling
David Bolzonella, University of Verona

15.40-16.00 (Almost full) scaling-up of PHA production from excess sludge: the Project Circular BioCarbon
Representative of Gruppo CAP

16.00-16.20 (Almost full) scaling-up of PHA production from OFMSW
Representative of Contarina SpA

16.20-16.40 Widespread recovery of PHA in urban public services
Representative of HERA/IREN/SMAT/AZA

16.40-17.00 Sustainable packaging and PHA-based bioplastics
Representative of CAVIRO (title to be confirmed)

17.00-17.20 Sustainable goods for PHA-based bioplastics
Representative of SABIOMATERIALS (title to be confirmed)

17.20-18.00 Questions, discussion and closure (by the chairs)

14:30 - 17:30

Neri 1 Room South Hall

**CIRCULAR ECONOMY
VALUE CHAINS:
REINFORCE SYSTEMS
AND CLUSTERS**
Ecomondo Event

Instruments for implementing the circular economy

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and the National Centre of Waste and Circular Economy, ISPRA

In 2020 the new Action Plan on the circular economy was published and in September of the same year Italy closed the transposition of the so-called "circular economy package". In addition, the conclusions of the 2020 European Council and the resolution of the European Parliament of 10 February 2021 on the new action plan for the circular economy have completed the reference framework. The opportunity offered by the Recovery plan to fill the existing structural gaps will be a driving force for the future. The day represents an opportunity to evaluate the tools employed by our Country to implement the principles of the circular economy.

Section Chair

Valeria Frittelloni, Director of the National Centre of Waste and Circular Economy, ISPRA

Programme

The actions of the Ministry for the ecological transition: assessing the situation
Laura D'Aprile - General Director of Circular Economy, Ministry of Ecological Transition

Funding for research and development projects for the circular economy
Representative of Ministry for Economical Development (TBC)

The SNPA and the essential levels of environmental performance
Fabio Carella - General Director of ARPA Lombardia

Innovation, infrastructures and citizen science as indispensable tools for the circular transition of territories
Roberto Morabito - Director of the Department for Sustainability of Productive and Territorial Systems, ENEA

Economic instruments at the service of the circular economy. The waste tax.
Representative of ARERA

The contribution of environmental associations
Stefano Ciafani - President of Legambiente

Conclusions
Alessandro Bratti - General Director of ISPRA

FRIDAY 29 OCTOBER

10:00 - 12:30

Biobased Industry Room
D1 Pav.

**AGRI-FOOD, FORESTRY
AND BIOBASED
INDUSTRY**

Ecomondo Event

The role of the bio-based industry for a healthy planet in the post-covid era

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Italian Technology Cluster SPRING

As reported by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) in 2020, pandemics will emerge more often in the future, unless there is a transformative change in the global approach of those same human activities that impact on ecosystems. According to IPBES, prevention would be 100 times cheaper than the cost of responding to pandemics. In this context, the bio-based industry can represent an essential element to ensure the green transition envisaged by the Green Deal, reconciling the economy with society, the environment and human health. Indeed, all the different bio-industry sectors could play a key role in the creation of local low-impact value chains, in which waste represents the lifeblood for the production of new sustainable materials, products and services. The evolution of this sector towards a growing circularity and towards a greater integration of industry, agriculture and urban centers will be fundamental to face the multiple interconnected challenges of the twenty-first century, mitigating the impact of climate change, regenerating degraded soils and ensuring competitiveness and the creation of new jobs.

Based on these premises, the conference aims to present the case studies of circular bioeconomy, which have made Italy a pioneer in the sector at European level and to bring out the obstacles that still remain for a full implementation of the circular bioeconomy in our country.

Section Chairs

Mario Bonaccorso – Cluster SPRING Director

Cinzia Tonci – Representative of the Italian Ministry of Economic Development

Programme

10.00 Welcome

Representative of Italian Ministry for Ecological Transition

10.00 Introduction by the chairs

10.15 Circular bioeconomy best practices in the urban environment

The Italian bioplastics and biochemicals value chain

Carmine Pagnozzi - Technical Director of Biorepack

Sustainable solutions for better management of organic carbon in cities

Representative of Milan Food Policy

Urban organic waste as a resource for new municipal biorefineries

Massimo Centemero - General Manager of the Italian Composting Consortium

From non-recoverable waste to a new resource

Guido Poliseno - Business Development Manager Fater

From sewage sludge to new innovative bioproducts

Andrea Di Piazza - Senior Analyst Utilitalia

From waste to secondary raw material: the case study of paper and cardboard

Claudio Busca - Head of General and Institutional Affairs Comieco

11.40 Bioeconomy from agriculture and for agriculture

From waste to bioenergy

Silvia Buzzi - HSE manager Caviro Extra

The circular bioeconomy for sustainable agriculture

Francesco Ciancaleoni - Environment and Territory Area of Coldiretti

Sustainable biomass at the service of the bio-based industry

Donato Rotundo - Director of Environment Energy of Confagricoltura

Low-impact agriculture and landscape protection - the case study of the Pantelleria Park

Michele Falce - Head of Production & Agricultural Services Novamont

12.20 Conclusions by the chairs

10:00 - 13:30

Neri 1 Room South Hall

**CIRCULAR ECONOMY
VALUE CHAINS:
REINFORCE SYSTEMS
AND CLUSTERS**
Ecomondo Event

End of life Vehicles: towards the new ELV Directive

Language: Italian

Organized by: Ecomondo Scientific Technical Committee and FISE UNICIRCULAR

The European End-of-Life Vehicle Directive (ELV Directive), adopted over 20 years ago, largely achieved the ambitious targets set at that time: eliminating the environment issue of abandoned cars, setting minimum requirements for the management of waste from the ELV and set targets for the reuse / recycling / recovery of ELVs. Directive 2000/53/EC was also the first waste legislation to introduce provisions on producer responsibility, becoming an excellent example of an instrument at the service of the circular economy. Today, twenty years later, the challenges are different: design, technologies and materials have changed and the news directive needs to be fitted to them.

For this reason, the European Commission has carried out an evaluation process of ELV directive and should present, by 2022, a proposal to revise it. Stakeholders and representatives of automotive sector and ELVs management talk about it.

Section Chair

Paolo Barberi - Presidente Unicircular (TBC)

Program

10.00 Introduction by the Chairs

10.20 The new directive ELV: presentation and proposal discussion
Artemis Hatzi Hull* – DG Environment, European Commission (TBC)

11:00 Panel discussion
Anselmo Calo', ADA (TBC)
Antonio Cernicchiaro, UNRAE – National Union of Foreign Vehicle Representatives (TBC)
Francesco Bonino (FCA) (TBC)
Alfonso Gifuni (CAR) (TBC)
Stefano Leoni (AIRA – Industrial Association of Vehicles Recyclers) (TBC)
Paolo Pozzato (ASSOFERMET Rottami) (TBC)

13.00 Discussion and Closure (by the chairs)

10:00 - 13:30

Diotallevi 2 Room South
Hall**BEACON
CONFERENCES**
Ecomondo Event

The Italian Circular Economy Stakeholders Platform initiatives within the CEAP

Language: Italian
Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee, ENEA and ICESP

The European Circular Economy Action Plan published on March 2020 is one of the main building blocks of the European Green Deal. It calls for action on legislative and non-legislative measures targeting those areas with more potential of bringing real added value at the EU level. High relevance is given to multistakeholder and intersectoral hubs, as key to finding winning solutions for closing the loop along value chain and inside the cities and the territory. The network governance can power the circular economy by strengthening the positive forces in society, fostering dialogue and synergic relations and facilitating inter-sectorial interactions among all the actors which are involved in the CE transition. Within this frame, the Italian Circular Economy Stakeholder Platform, operating since May 2018 as national mirror of the ECESP and counting on more than 250 multi sectoral participating organizations, has recently reorganized its working groups answering to the 2020 CEAP and to the emerging priorities the priorities for a post-COVID-19 recovery, identified by ICESP community at the end of 2020. Moreover, since multidisciplinary approach and dissemination of good practices (GP) can inspire the transition towards circular economy, ICESP collected more than 180 Italian GPs through WGs meetings and consultations, with open access on www.icesp.it. These are monitored and analysed in terms of replicability, maturity, impact quantification for both the value chain and the territorial approach. The conference will be the occasion for giving a glance on ICESP ongoing activities, good practices and perspectives in line with European initiatives.

Section Chairs

Roberto Morabito - Director of ENEA Department for Sustainability and ICESP President
ICESP Coordination Committee representative tbc

Programme

10.00 Introduction by the Chairs

10.20 Circular Economy Action Plan,
European Commission representative tbc

10:40 The work of ECESP and leadership group on "network and governance"
Ladeja Godina Košir, Chair of the Coordination Group of the European Circular Economy Stakeholder Platform (ECESP) tbc

11:00 ICESP initiatives in connection to CEAP
Grazia Barberio ICESP Technical coordinator

11:30 – 13:00

- ICESP GOOD PRACTICES

ICESP WG6 representative

- CIRCULAR VALUE CHAINS

Circular Economy Action Plan and Italian Good Practices in value chains: focus on textile, C&D, electric mobility, food system, plastics, EEE
ICESP WG4 representatives

- CIRCULAR CITIES AND TERRITORY

Circular Economy Action Plan and Italian Good Practices in territories implemented by institutions, enterprises and citizens
ICESP WG5 representatives

13.00 – 13:30 **Discussion and Closure (by the chairs)**

14:30 - 16:30

Diotallevi 1 Room South
Hall**BLUE GROWTH**
Ecomondo Event

The green transition: a route between safety, research, innovation in energy sector

Language: Italian

organized by: Ecomondo Technical Scientific Committee, Energy and Climate Department of the Ministry of Ecological Transition, CLYPEA Innovation Network for Future Energy

The CLYPEA network, strongly supported by the Italian Ministry of Economic Development – DGS gUNMIGt, comprises from 2014 the best actors in the scene of offshore safety in mining activity. In these last years, the Network has evolved following the logic of transition from traditional to renewable energy, asserting itself as an innovation hub able to explore some of the research topics most challenging in energy field. The workshop will outline a route for the Green Transition between safety, research, innovation in energy sector, through the activities carried out by the experts of the CLYPEA Network and constant debate with the Institutions, according to current criteria of efficiency, effectiveness and return in knowledge value.

Section Chair

Energy and Climate Department of the Italian Ministry for the Ecological Transition - TBC

Program

Introduction

H&RA Lacinia Project: a cooperation example between experts and Institutions for the offshore safety in mining activities.

Safety for energy Infrastructure has a key role for htransition

Discussion and Closure