

# Ecomondo 2024

05 / 06 / 07 / 08 NOVEMBER

## Legend

-  Agroecology and Bioenergy
-  Circular and Regenerative Bioeconomy
-  Environmental Monitoring and Earth Observation
-  Financing, education and communication
-  Policies and regulatory frameworks
-  Resource efficiency and Circular Economy
-  Sites & Soil Maintenance and Restoration
-  Water cycle and Blue Economy

# TUESDAY 5 NOVEMBER

TUESDAY 5  
NOVEMBER

10:00 -  
13:00

Agorà Malatesta -  
Environmental  
Monitoring Area  
D8 pav.

**Environmental  
Monitoring and  
Earth  
Observation**

*Onsite event*

[Click here](#)

## Indoor air: the role in the environment and health relationship

Language: Italian

**organized by Ecomondo STC & National Institute of Health**

### **OPEN TO PAPERS**

The purpose of this conference is to present initiatives, strategies and conceivable actions to follow on indoor air quality, to reduce the exposure of the population and workers. In particular, it should be highlighted that it is necessary to cover, in the transposition of the new European Directive on air quality, the inclusion of reference values for indoor air quality to be adopted by Italy.

### **Session Chairs**

Gaetano Settimo, Italian National Institute of Health

Gianluigi de Gennaro, University of Bari

### **Programme**

10.15 Introduction by the Chairs

10.30-10.55 *Indoor air quality and WHO initiatives*

Luca Fontana, WHO, Ginevra

10.55-11.10 *The Indoor Pollution Study Group ISS: activities and directions for the development of a national strategy*

Gaetano Settimo, National Institute of Health

11.10-11.25 *Title of the talk from Ecomondo Company 1*

Speaker, Affiliation

11.25-12.30 *Speeches selected from the Call for Papers*

12.30 Discussion and closure by the Chairs

TUESDAY 5  
NOVEMBER

10:00 -  
17:30

Tiglio Room A6  
pav.

**Resource  
efficiency and  
Circular  
Economy**

*Onsite event*

[Click here](#)

## Technological solutions for resources recovery from end-of-life products and materials

Language: English

Simultaneous translation: Italian

**organized by Ecomondo STC & Italian Chemical Society – Division Environmental and Cultural Heritage Chemistry, ISWA international, ATIA – ISWA**

### [OPEN TO PAPERS](#)

The current circular material use rate in the EU is estimated below 12%, indicating a considerable difficulty in the valorisation of end-of-life goods. Thus, the increasing demand for natural resources still characterizes most economic value chains, hindering an effective implementation of the principles of circular economy. A stronger effort is clearly needed to reach the European target of recycling and recovery, with the fundamental contribution of technological innovations, which can trigger virtuous industrial experiences.

This seminar will propose examples of novel technical solutions which could have the potential to significantly improve the performance of waste valorisation in different economic sectors.

### **Session Chairs**

Fabrizio Passarini, Ecomondo STC and University of Bologna  
Paolo Massarini, ATIA – ISWA (TBC)

### **Programme**

9.30 Introduction by the Chairs

### **Invited lectures**

9.45-10.00 *Project “Waste2BioComp” - Converting organic waste into sustainable bio-based components*

Renato Mortera, Propagroup (TBC)

10.00-10.15 *Life “New4Cartridges”: a new circular paradigm for Reuse and Recycling of Ink Cartridges*

Federica Gerardi, Eco Store

### **Speeches selected from the Call for Papers**

17.15-17.30 Discussion and closure by the Chairs

POSTER SESSION

TUESDAY 5  
NOVEMBER  
10:15 -  
17:00

Agorà Tiberio –  
Water Cycle Area  
D8 pav.

**Water cycle and  
Blue Economy**

*Onsite event*  
[Click here](#)

## Integrated solutions to adapt water systems to climate change: European and Mediterranean impacts, solutions and innovation actions

Language: English

**organized by Ecomondo STC & Union for the Mediterranean, Water Europe, Marche Polytechnic University, University of Bologna, ANBI (National Association of Land Reclamation and Irrigation Consortia)**

### **OPEN TO PAPERS**

Climate change is exacerbating both water scarcity and water-related hazards (such as floods and droughts), as rising temperatures disrupt precipitation patterns and the entire water cycle. The Mediterranean basin is a climate change hotspot and projected climate water-related risk from IPCC are serious. Water solutions include healthy aquatic ecosystems and improved water management can lower greenhouse gas emissions and provide protection against climate hazards, wetlands also serve as a buffer against extreme weather events, early warning systems for floods, droughts and other water-related hazards, water-resilient infrastructure planned and constructed following a systemic and nexus-based approach, climate smart agriculture. This workshop will be divided in 3 sessions addressing main challenges and solutions with contributions from international networks and consortia, water authorities, agencies and utilities as well as the innovators.

#### **Session 1:**

***Climate change observed, monitored and projected impacts***

#### **Session Chairs**

Alessandro Bratti, Po River Basin Authority  
Giuseppe Bortone, ASSOARPA

#### **Session 2:**

***Solutions for adaptation: resilient reconstruction, alternative water sources, improved reservoirs, etc***

#### **Session Chairs**

Attilio Toscano, Ecomondo STC and University of Bologna  
Representative of UTILITALIA (TBC)  
Representative of ANBI (TBC)  
Representative of Italian Ministry of Environment and Energy Security (TBC)  
Representative of Italian Ministry of Infrastructures and Transport (TBC)  
Representative of Commissioner for dams (TBC)

#### **Session 3:**

***Strategic and systemic EU-funded and international innovation actions and missions (HEU, PRIMA, grandi LIFE) focus Mediterraneo***

#### **Session Chairs**

Representative of Union for the Mediterranean (TBC)  
Andrea Rubini, Water Europe  
Francesco Fatone, Ecomondo STC and Marche Polytechnic University

TUESDAY 5  
NOVEMBER

14:00 -  
16:00

Diotallevi 2 Room  
South Hall

**Water cycle and  
Blue Economy**

*Onsite event*

[Click here](#)

## Boosting technology and business models for the implementation of the EU Mission Restore our Ocean and Waters in the Mediterranean

Language: English

Simultaneous translation: Italian

**organized by Ecomondo STC & BlueMissionCSA, BlueMed GSOs, European Commission, FVA**

After one year from the launch in Rimini of the Italian HUB, BlueMissionMed CSA brings back all the Mediterranean Stakeholders engaged with the EU Mission Restore our Ocean and Waters by 2023 to the Ecomondo Exhibition. BlueMissionMed, with all the co-organisers, embraces this opportunity to shorten the gap among innovative solutions and the business community, and, moreover, to enhance the business capacities to deploy innovative solutions. To do so, demonstration activities for the innovative solutions, targeting different industrial sectors and covering the geographical variability of the Mediterranean, will be organized with the cooperation of the BlueMissionMed HUBs. As well, with the help of the Business Country Desk platform, a match-making session will take place among business pioneers in the prevention and reduction of pollution interested in upscaling their business models with the innovative transformative solutions showcased.

Transformative changes requires profound societal engagement to be implemented. During the event, the winners of the Society4Med award will be presented to the whole stakeholder community to inspire similar activities across and beyond the Mediterranean basin.

### Session Chairs

Representative of CNR (National Research Council) - BlueMissionMed CSA  
Representative of FVA - BlueMissionMed CSA

### Programme

14.00 Introduction by the Chairs

14.05 Keynote speech from the EU Mission Restore our Ocean and Waters (EC)

14.20 *Demonstration of innovative solutions*

Speaker (TBD)

Pitch from selected solutions identified in cooperation with the 7 BlueMissionMed Hubs  
(North-South Med)

14.30 **Roundtable among key industrial stakeholders**

Plastic Industry, Fishery and Aquaculture, Port and Cruise, Agriculture, Conservations/MPAs, Tourism, Cities and Regions, Environmental Associations

## 15.10 **"Solutions4med" pitching sessions**

Speaker (TBD)

"Society4med" pitching sessions: award to celebrate the best initiatives involving citizens in transformative actions implementing solutions to reduce and prevent pollution from ocean and waters

15.40 Q&A session and conclusion by the Chairs

Match-making session with the help of the Business Country Desk platform will be held after the event

TUESDAY 5  
NOVEMBER

14:00 -  
16:00

Ravezzi 2 South  
Hall

**Financing,  
education and  
communication**

*Onsite event*

[Click here](#)

## The role of green bonds in financing climate adaptation

Language: Italian

Simultaneous translation: English

**organized by Ecomondo STC & Forum per la Finanza Sostenibile (ItaSIF - Italian Sustainable Investment Forum)**

As the urgency of addressing climate change intensifies, green bonds stand out as a crucial financial tool for financing adaptation initiatives aimed at reducing environmental impacts, particularly those with high initial costs. Indeed, green bonds can drive financial systems towards a resilient and adaptive future; however, there is a need for robust frameworks to counteract misalignments and prevent greenwashing in climate adaptation finance. The conference will examine the role of green bonds in climate adaptation, with a focus also on mini green bonds for SMEs adaptation projects.

### Session Chair

Francesco Bicciato, Executive Director, Forum per la Finanza Sostenibile - ItaSIF

### Programme

14.00 Introduction by the Chair

Speakers:

Lavinia Monti, Dipartimento del Tesoro, Ministero dell'economia e delle finanze

Linda Zeilina, Founder & CEO, International Sustainable Finance Centre (TBC)

Fabrizio Palmucci, Founder, Impactivise and Senior Advisor, Climate Bonds Initiative (TBC)

Isabel Reuss, Senior Climate and Social Advisor, Forum per la Finanza Sostenibile - ItaSIF

15.15 Ecomondo companies' representatives

15.40 Discussion and closure by the Chair

TUESDAY 5  
NOVEMBER

14:00 -  
17:30

Agorà Malatesta –  
Environmental  
Monitoring Area  
D8 pav.

**Environmental  
Monitoring and  
Earth  
Observation**  
*Onsite event*  
[Click here](#)

## Odor emissions: from abatement technologies to new control strategies

Language: Italian

**organized by Ecomondo STC & ISPRA (Italian Institute for Protection and Environmental Research), Italian Chemical Society - Division of Environmental and Cultural Heritage Chemistry**

### [OPEN TO PAPERS](#)

The Ecomondo Odor Emissions conference (at its fourteenth 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.

### **Session Chairs**

Gianluigi de Gennaro, University of Bari "Aldo Moro"

Lucia Muto, ISPRA

Gaetano Settimo, National Institute of Health

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

*Two invited lectures*

*Speeches selected from the Call for Papers*

15.00-16.30 Sessions

16.30-17.00 Poster Session

17.00-17.20 Discussion and closure by the Chairs

TUESDAY 5  
NOVEMBER

14:30 -  
16:30

Agorà Ariminum –  
Circular Economy  
Area D1 pav.

**Resource  
efficiency and  
Circular  
Economy**  
*Onsite event*  
[Click here](#)

## Circular economy best practices for electronics and Hi-tech Industry: from industrial case studies to future policies

Language: Italian

**organized by Ecomondo STC & ERION (Multi-compliance non-profit System for the management of different types of waste)**

The current global and European context is pushing the electrical and electronic equipment sector towards the adoption of circular economy strategies. The aim is to increase the amount of materials recovered from waste recycling, thereby encouraging greater waste collection from both consumers and professional entities, such as offices and industries. Initiatives will be explored that involve four main value chains related to advanced technology products: electrical and electronic equipment intended for domestic and professional use, batteries and accumulators and electronic product's packaging. Through the implementation of virtuous practices to optimize waste management, innovative solutions for the recycling of post-consumption materials will be discussed together with the opportunities offered by regulatory developments, such as the future revision of the WEEE Directive.

### Session Chair

Luca Campadello, ERION

### Programme

14.00-14.15 Introduction by the Chairs

14.15-15.00 *Regulations and circular economy models in the supply chains of WEEE, Waste Batteries and Packaging Waste*

Speakers:

Andrea Farì, Ambientalex

Fabrizio Longoni, CdCRAEE

Luca Tepsich, CdCNPA

Representative of CONAI (TBD)

Representative of Italian Ministry of Environment and Energy Security (TBD)

Representative of European Commission (TBD)

15.00-16.30 Solutions to improve the collection, preparation for reuse, and recycling of WEEE, Waste Batteries and Packaging Waste:

- *the supply chain for recovering Neodymium from WEEE and electric mobility*  
Francesco Gallo, Itelyum
- *the role of distribution in raising consumer awareness and waste management*  
Paolo Chini, Amazon  
Distribution Company (TBD)
- *supply chain solutions for lithium batteries*  
Lithium Battery Manufacturer (TBD)
- *circular solutions for EEE and packaging*  
EEE and Packaging Manufacturer (TBD)  
Regeneration company (TBD)



16.30-16.45 Discussion and closure by the Chairs

TUESDAY 5  
NOVEMBER

16:30 -  
18:30

Ravezzi 2 South  
Hall

**Resource  
efficiency and  
Circular  
Economy**  
*Onsite event*  
[Click here](#)

## Plastic and the challenge of the circular economy

Language: Italian

**organized by Ecomondo STC & ISPRA (Italian Institute for Environmental Protection and Research), Legambiente (Italian environmental association)**

The European strategy for plastics in a circular economy lays the foundations for a new economy of this fraction, identifying specific objectives, including that of ensuring by 2030 the full recyclability of all packaging placed on the market as well as the recycling of more than half of plastic packaging waste.

At present, the most updated data, referring to 2022, show a plastic packaging recycling percentage of 48.9%. Alongside the recycling objectives, the European legislation also introduces targets of recycled material content in packaging put on the market, with reference for example to packaging for liquid foodstuffs for which targets of 25% are set by 2025 in the case of PET bottles with a capacity of up to three liters and of 30% by 2030 for all types of drink bottles.

The implementation of separate collection systems can improve the quality of the collected waste and can reduce the contamination of the different fractions, representing a structural element to guarantee the achievement of the new targets. Available data show that plastic, including all types of materials and not just packaging, still tends to be largely concentrated in mixed municipal waste with an overall recycling percentage of 20-25% compared to municipal plastic waste yearly generated.

Maximizing recycling also requires investments in new technologies, aimed at valorizing the currently non-recoverable fractions, alongside those already consolidated. The definition of the national strategy on plastics can guarantee to our country an effective path of technological innovation.

The day is an opportunity to take stock of the measures implemented and the technological possibilities available.

### Session Chair

Valeria Frittelloni, Head of Department of Environmental Assessment, Monitoring and Sustainability, ISPRA

### Programme

Andrea Massimiliano Lanz, Responsabile Centro nazionale dei rifiuti e dell'economia circolare, ISPRA

Representative of ANCI

Representative of CNR

Luca Mariotto, direttore servizio ambiente Utilitalia

Representative of Federchimica

Representative of Assorimap

Representative of Unionplast

### Conclusions

Laura D'Aprile, Head of the Sustainable Development Department of the Italian Ministry of the Environment and Energy Security



# WEDNESDAY 6 NOVEMBER

WEDNESDAY 6  
NOVEMBER

10:00 -  
13:00

Diotallevi Room  
South Hall

**Resource  
efficiency and  
Circular  
Economy**  
*Onsite event*  
[Click here](#)

Municipal Textile Waste: collection, reuse and recycling.  
Where do we stand?

Language: Italian

**organized by Ecomondo STC & UNIRAU (Union of used clothing collection, recycling and reuse companies)**

The EU Strategy for Sustainable and Circular Textiles, published in March 2022, addresses the issues of textile production, consumption and post-consumption in the context of the Circular Economy Action Plan and the European Industrial Strategy.

Textile products are very present in daily life and urgent action is needed as their impact on the environment continues to grow and represents the fourth highest impact on the environment and climate change, with high consumption of water, soil, primary raw materials and greenhouse gas emissions.

The Commission's 2030 vision for the textile sector is based on durable, repairable and recyclable textiles, with recycled fibre content, free of hazardous substances, produced in compliance with social and environmental rights and certified by the introduction of the 'digital passport'.

The European Institution are also working on harmonized rules for EPR schemes to be implemented in all Member States to improve separate collection and incentivise circular business models that facilitate reuse, repair and recycling.

## Session Chair

Andrea Fluttero, UNIRAU

## Programme

10.15 Introduction by the Chair

### *Municipalities and collection cooperatives*

Comparison of different types of collection (on the road, door-to-door, selective)

Franco Bonesso, ANCI (TBC)

Karina Bolin, Humana people to people (TBC)

### *Selection companies*

Giuseppe Valletti, ARIU (TBC)

Carmine Esposito, UNIRAU (TBC)

### *Overall production of textile waste and Ecodesign*

They are essential to make the sector more circular. What is the state of the legislation?

Representative of JRC, Directorate General of the European Commission (TBD)

*Blockchain and digital passport*

State of the art and focusing on the experience of a Bocconi start-up  
Stefano Sana, Bcode (TBC)

*Recycling technologies*

Technological burdens and REACH compliance issues for fiber-to-fiber textile recycling  
Andrea Falchini, Next Technology Prato (TBC)

Updates to the regulatory framework

Silvia Grandi, General Director of Italian Ministry of Environment and Energy Security (TBC)

12.45 Conclusions

WEDNESDAY 6  
NOVEMBER

10:00 -  
13:00

Agorà Ariminum –  
Circular Economy  
Area D1 pav.

**Resource  
efficiency and  
Circular  
Economy**  
Onsite event  
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## Advanced experiences on circular economy in the construction sector

Language: Italian

**organized by Ecomondo STC & Green Building Council Italy, Marche Polytechnic University**

Circular economy is in general defined as the ability to recycle the material from which movable and immovable goods are made in order to produce new ones. In reality, the circular economy is a model of production and consumption that involves sharing, lending, reusing, repairing, reconditioning and recycling existing materials and products with the aim of extending their useful life as long as possible. The synergy between all these areas and skills is essential to achieve the goal of truly circular construction. In a mature Circular Economy model, the materials with which a good is made are reintroduced, where possible, into the economic cycle only after the good or its functional parts have finished their function.

The meeting will open a window on these issues in the construction industry by addressing with examples the different levels of circularity applied at the building and urban scale. Innovative and multidisciplinary projects will be presented. The final round table will stimulate the debate on the perspectives and roles of the different categories of stakeholders.

### Session Chairs

Marco Caffi, Green Building Council Italia  
Gian Marco, Revel, Università Politecnica delle Marche

### Programme

10.00 Introduction by the Chairs

10.10-10.30 *Level(S) and circularity in construction*  
Josefina Lingdom, DG ENV European Commission

10.30-10.50 *The new PPP on Advanced Materials (I'M4EU) and the impact on Circular Economy in Constructions*

Representative of European Commission

10.50-11.10 *The national strategy for the circular economy*

Silvia Grandi, Italian Ministry of Environment and Energy Security

11.10-11.20 *Bio-based materials and circularity*

Diego Mingarelli, Diasen

11.20-11.30 *From waste to product: building products from recycled materials*

Representative of Knauf or Saint Gobain or Interface

11.30-11.40 *Circular construction sites*

Andrea Vecci, REDO

11.40-11.50 *Circular projects*

Paolo Crseci, ARUP

11.50-12.00 *The Horizon Europe Project "Reconstruct - Developing circular, eco-friendly, and innovative solutions to reduce emissions from the construction industry"*

Gloria Cosoli, Marche Polytechnic University

12.00-12.30 *Round Table*

Fabrizio Capaccioli, GBC Italy

Roberto Morabito, ICESP

Representative of OICE

Valerio Barberis, Municipality of Prato

12.30 Discussion and closure by the Chairs

WEDNESDAY 6  
NOVEMBER

10:00 -  
13:00

Tulipano Room B6  
pav.

**Environmental  
Monitoring and  
Earth  
Observation**  
*Onsite event*  
[Click here](#)

## National HIA Guidelines: application experiences of proposers and evaluators

Language: Italian

**organized by Ecomondo STC & National Institute of Health, ISPRA (Italian Institute for Environmental Protection and Research)**

### [OPEN TO PAPERS](#)

The workshop aims to illustrate the application experiences of the National VIS LGs developed by ISS in the context of the EIA procedure of works under state jurisdiction, in particular large combustion plants. This day in particular aims to describe the development and analysis of the HIA study from the point of view of the Proponent and the Evaluator for certain works such as regasification plans, biorefineries and thermal power plants. Discussions between Proponents and Evaluators allow the identification of the most suitable development solutions to safeguard the health of the populations of the territories concerned.

### **Session Chairs**

Eleonora Beccaloni, National Institute of Health

Gianluigi de Gennaro, University of Bari

## Programme

10.00 Introduction by the Chairs

*Application experiences of National HIA Guidelines*

Eleonora Beccaloni, National Institute of Health

Mariachiara Zanetti, Polytechnic University of Turin

*Application experience of the Proponent National HIA Guidelines - 1*

Speaker, Affiliation

*Application experience of the Proponent National HIA Guidelines - 2*

Speaker, Affiliation

*Speeches selected from the Call for Papers*

Discussion and closure by the Chairs

WEDNESDAY 6  
NOVEMBER

10:00 -  
17:00

Agorà Tiberio –  
Water Cycle Area  
D8 pav.

**Water cycle and  
Blue Economy**

Onsite event

[Click here](#)

Plans, strategies and solutions to implement the new Urban Waste Water Directive and address the challenges of the new Sludge Directive: European and Italian case studies

Language: English

**organized by Organized by: Ecomondo STC & Water Research Institute (IRSA-CNR National Research Council), University of Brescia, UTILITALIA (Italian federation of energy, water and environmental services), SNPA/ISPRA (Italian Institute for Environmental Protection)**

**[OPEN TO PAPERS](#)**

CALL FOR PAPERS

The new Urban Wastewater Treatment Directive paves the way towards a smart, green, and circular wastewater management taking into account new sources of urban pollution, becoming more and more prevalent (such as smaller cities, decentralised facilities or storm waters), as well as new emerging pollutants including microplastics and micropollutants. In addition, it will drive the wastewater sector towards energy and climate neutrality, contributing to circular economy by improving the quality of sludge and treated wastewater, allowing for more reuse in agriculture and ensuring that valuable resources are not lost. When doing so, the Member States are expected to comply also with the Sewage Sludge Directive, waiting for an imminent revision. The conference intends to give a contribution in shaping the picture of what is already under way in these areas and with what perspectives and technical solutions. The shift to circularity and zero pollution requires a complex combination of appropriate regulatory framework, new technologies, and effective coordination between different sectors and stakeholders, here represented.

**Session Chairs**

Camilla Braguglia, IRSA-CNR  
 Giorgio Bertanza, University of Brescia  
 Tania Tellini, UTILITALIA  
 Giuseppe Bortone, ASSOARPA (National Association of Regional Environmental Protection Agencies)

## **Programme**

10.00-10.10 Introduction of the morning session by the Chairs

10.10-10.30 *The italian roadmap for UWWTD transposition*  
 Representative of Italian Ministry of Environment and Energy Security (TBC)

10.30-10.50 *Solutions for micropollutants removal and wastewater treatment plants upgrade-the swiss experience*  
 Representative of VSA, Vongunten EAWAG (TBD)

10.50-11.20 *Risks and opportunities for operators and stakeholders along this transformation journey* (UTILITALIA, utilities)

11.20-11.35 *Reuse and/or discharge: case studies in the new European framework*  
 Representatives of Marche Polytechnic University, Po River Basin Authority, utilities (TBD)

11.20-13.20 **Speeches selected from the Call for Papers on urban wastewater (treatment, monitoring, case studies, wwtp upgrade)**

## ***Break for lunch***

14.20-14.30 Introduction of the afternoon session by the Chairs

14.30-14.50 *Unlock the potential of the sewage sludge directive*  
 Representative of Water Europe, Utilitalia

14.50-15.10 *Sludge recovery in agriculture: environment and health protection*  
 Representative of University of Brescia

15.10-15.30 *Sludge management and integration with the cycle of waste*  
 Representative of ASSOARPA/ISPRA

15.30-17.00 Speeches selected from the Call for Papers on sludge treatment and circular management (innovation, emerging pollutants, thermal treatments, monitoring, case studies, recovery in agriculture, bio-energy, ...)

POSTER SESSION

WEDNESDAY 6  
NOVEMBER

14:00 -  
17:00

Noce Room A6  
Pav.

**Policies and  
regulatory  
frameworks**

*Onsite event*  
[Click here](#)

## The european regulation on transboundary movement of waste - the new operational changes

Language: Italian

**organized by Ecomondo STC & ASSOAMBIENTE (National Association of Environmental Services Companies and Circular Economy)**

Waste Shipment Regulation (EC) 1013/2006 (WSR) transposes into EU law the provisions of the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal and the related OECD Decision.

The Regulation covers the export and import of waste to and from the EU, as well as the shipment between member states of hazardous and non-hazardous waste. The Regulation also defines the procedures to be adopted for the shipment of different types of waste.

On November 17, 2021, the European Commission adopted its proposal to revise the Regulation, which was amended in late 2023 by the Council and Parliament, which defined their positions. The European institutions are now in discussions to find a common agreement.

Important changes have been made, often also related to Europe's circular economy needs.

### **Session Chair**

Elisabetta Perrotta, Director of ASSOAMBIENTE

### **Programme**

Representative of European Commission (TBC)

Representative of FEAD

Representative of Customs Office

Representative of Ecomondo companies

Discussion and closure by the Chairs



WEDNESDAY 6  
NOVEMBER

14:00 -  
17:00

Agorà Augusto –  
Bioeconomy Area  
D2 pav.

**Circular and  
Regenerative  
Bioeconomy**

Onsite event

[Click here](#)

## Biowaste: XXVI Conference on Composting and Anaerobic Digestion. Technical session

Language: Italian

**organized by Ecomondo STC & CIC (Italian Composting Consortium)**

### **OPEN TO PAPERS**

The session will give space to projects and experiences relating to the recycling of organic waste, ranging from the input materials, their recycling processes and the valorisation of the obtainable products: organic fertilizers (soil improvers and fertilizers) useful for maintaining the organic fertility of the soil, biogas and its exploitation, and green chemical products that can be used in several industrial applications.

*\* Draft programme under definition*

WEDNESDAY 6  
NOVEMBER

14:00 -  
17:30

Tulipano Room B6  
pav.

**Circular and  
Regenerative  
Bioeconomy**

Onsite event

[Click here](#)

## An innovative approach for the transition to sustainability in the “climate” changing era for a more resilient agrifood system

Language: Italian

**organized by Ecomondo STC & National Agrifood Cluster CL.A.N.**

Cluster CL.A.N., in collaboration with the Technical-Scientific Committee (TSC) of Ecomondo, organises an event dedicated to the innovations adopted by the Italian agrifood system to face the sustainable transition, considering various aspects related to change of climate and new global scenarios.

The agrifood system is completely aware of the importance of a holistic approach (involving several actors and stakeholders) to set up innovative and tailored tools able to use agricultural resources in all their utility components, and, in compliance with health and environmental protection regulations, it creates a virtuous circle functional to the implementation of the circular economy concept that is the focus of current European policies and regulations. The event will provide an opportunity for Cluster Members and stakeholders to discuss the critical issues related to the current historical phase, highlighting the development strategies adopted by companies in the sector and the potential of the country's research excellence.

### **Session Chair**

Daniele Rossi, Vicepresident of CL.A.N.

### **Programme**

14.00 *Welcome and introduction*  
Daniele Rossi, Vicepresident of CL.A.N.

14.10 *Key note speech - How new global scenarios influence the food sector*  
Speaker (TBD)

14.25 *Key note speech - How climate change impacts the food sector*  
Speaker (TBD)

14.40 *The Cluster agrifood Roadmap to 2027 and the sustainability challenges*  
Presidence STC of CL.A.N.

### **Roundtable sessions**

14.50 *Innovation, sustainability and circular bioeconomy in the climate agenda of agrifood companies: case hystories*

Representative of Primary sector Company  
Representative of Food Company

15.20 *R&I in biotechnology as a tool to counteract climate change and support the transition to more sustainable processes*

Representative of University  
Representative of Research Centre

15.50 *Regional policies and innovation actions to respond to climate change and to new global scenarios*

Representative of Territory  
Representative of Territory

16.20 *Speakers roundtable, discussion and closure by the Chair*

WEDNESDAY 6  
NOVEMBER

14:00 -  
17:30

Agorà Ariminum –  
Circular Economy  
Area D1 pav.

**Resource  
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Circular  
Economy**  
*Onsite event*  
[Click here](#)

The sustainability of the Italian mechanical recycling industry of metal, plastic and paper waste in front of new protectionisms and the challenges of international markets

Language: Italian

**organized by Ecomondo STC & UNIRIMA (National Union of Pulp Recovery and Recycling Enterprises), ASSORIMAP (Association of Recyclers and Regenerators of Plastic Materials), ASSOFERMET (National association of recycling of ferrous and non-ferrous metals)**

ASSOFERMET, ASSORIMAP and UNIRIMA are the three national Associations of recycling of ferrous and non-ferrous metals, plastic and paper, each one representative of a specific and functional sector of material recovery. Their member companies, keeping increasingly specialized activity, actualize the principles of circular economy, essential for the achievement of the ambitious objectives set at EU level.

Despite the strategic role for the promotion of environmental sustainability, these recovery facilities are now facing more and more complex challenges, set up by an environmental policy based on new generation protectionist measures, which prohibit or make the export of non-hazardous waste, already subjected to treatments within the EU, difficult and articulated.

Only a strategy of self-sustainability, realized in such a way as to fully replace raw materials in industrial processes with materials from recovery, will give full recognition to "urban mining". This can only be achieved if the European industrial production system shall be technologically modernized in order to use massively materials from recovery instead of raw materials.

Forcing a market, severely limiting its autonomy based on the balance between supply and demand, discouraging exports, will create strong imbalances and a weakening of the recovery sector, in which Italy is a leading country.

The recovery sector, on the other hand, needs tools that allow the recovered material to be fully placed in internal industrial processes: in this way, the market will autonomously redefine the export dynamics

### **Session Chair**

Silvia Serranti, Full Professor at the Department of Chemical Engineering, Materials & Environment, Faculty of Civil and Industrial Engineering, University of Rome "La Sapienza"

### **Programme**

14.00 Introduction by Silvia Serranti

*Institutional greetings*

Member of the Chamber of Deputies Environment Commission (TBD)

Panelists:

***Recycling chains: industrial development and sustainability to win the European challenge of circularity***

### **ASSOFERMET**

Brief introduction by Cinzia Vezzosi, Assofermet and Euric Vice President Company of ASSOFERMET (TBD)

### **ASSORIMAP**

Brief introduction by Walter Regis, President Company of ASSORIMAP (TBD)

### **UNIRIMA**

Brief introduction by Francesco Sicilia, General Manager Company of UNIRIMA (TBD)

*The European framework*

Mattia Pellegrini, Head of Unit DG ENV - Circular Economy - From Waste to Resources (TBC)

17.00 Conclusions

WEDNESDAY 6  
NOVEMBER

14:00 -  
18:00

Neri 2 Room  
South Hall

**Policies and  
regulatory  
frameworks**

*Onsite event*  
[Click here](#)

## Technical seminar: Waste management and new regulatory changes 2024

Language: Italian

**organized by Ecomondo STC & RETEAMBIENTE, Magazine "Rifiuti - Bollettino di informazione normativa"**

Once again this year, the Magazine "Rifiuti-Bollettino di informazione normativa" will offer the long-awaited and usual overview of the most important legislative and regulatory changes that, during 2024, have been incorporated into a challenging operational reference scenario. Nevertheless, the explanation of what is new, even during this edition of Ecomondo, does not preclude an in-depth analysis of topics that, while not recent, have reached a certain degree of complexity of application over the years.

### Session Chairs

Paola Ficco, Lawyer - Jurist in Environmental Law – Editor in Chief of the Magazine "Rifiuti - Bollettino di informazione normativa"

### Programme

14.10 Introduction by the Chairs

14.30 *End of waste and the upcoming decrees*

Silvia Grandi, Ministry of Environment and Energy Security

14.50 *End of waste of construction and demolition waste*

Paolo Barberi, President of ANPAR

15.10 *Material circularity and the new UNI method*

Andrea Sconocchia, Arpa Umbria

15.30 *Earth and rocks from excavation, the new decree*

Loredana Musmeci, Chemist

15.50 *The direct recovery*

Paola Ficco, Reteambiente

16.10 *Rentri, where are we at*

Daniele Gizzi, President of the National Register of Environmental Operators

16.30 *Rentri and the registration process*

Daniele Bagon, Register of Environmental Operators - Liguria Regional Section

16.40 *Contaminated sites and the transmissibility through inheritance of remediation charges*

Emanuele Quadraccia, deputy public prosecutor at the Military Public Prosecutor's Office in Naples

17.00 *Waste controls and conclusions*

Representative of the TASE Carabinieri Command

17.30 Discussion and closure by the Chairs

WEDNESDAY 6

NOVEMBER

14:00 -

18:00

Mimosa Room B6  
pav.**Circular and  
Regenerative  
Bioeconomy**

Onsite event

[Click here](#)

## Bio-based industry as a boost for sustainable primary production in rural regions: a journey across the Mediterranean basin

Language: Italian

**organized by Ecomondo STC & Italian Circular Bioeconomy Cluster SPRING**

Scientific research and breakthrough biotechnological innovations offer solutions that create new synergies between the bio-based industry and the agri-food sector. These alliances go beyond the consolidated paradigm of expanding the use of agricultural, forest and marine biomass, which often raises concerns about possible competition between food security and industrial productivity. Rather, the bio-based industry can provide solutions to reduce the environmental impact of outdated and polluting agricultural practices, improve the safety of work activities, enable the production of healthier food, and promote the regeneration of degraded soils. At the same time, the biodiversity of land and sea can be preserved. The wider area encompassing southern Europe and the Mediterranean basin can greatly benefit from the innovations of the bio-based industry, which can mitigate the obvious consequences of overpopulation and climate change. Moreover, the experience gained in the implementation of the bio-economy and the bio-based industry in the Mediterranean basin can be a model for solving similar urgencies in other geographical areas of the world.

### Programme

#### ***Session 1: Bioeconomy in the global scenario: the opportunities offered by sustainable bio-based economy transition***

Chair:

Lucia Gardossi, University of Trieste, board SPRING

*Sustainable and circular bioeconomy for food systems transformation*

Marta Gomez Sanjuan, FAO (TBC)

*A global landscaper for sustainable bioeconomy implementation*

Jim Philp, OECD (TBC)

*The G20 Global Land Initiative*

Speaker (TBD)

*The Bioeconomy initiative within the G7 Italian presidency*

Speaker (TBD)

*Exploring new visions for a sustainable bioeconomy*

Sarah Mubareka, JRC (TBC)

Discussion

#### ***Session 2: Multi-actor implementation of Bioeconomy in the Mediterranean basin and beyond***

Chair: Mario Bonaccorso, Director Cluster SPRING

*The contribution of CBE JU*

Virginia Puzzolo, CBE Joint Unter (TBC)

*The Biomodel4Regions EU project*

Speaker (TBD)

*The BioInSouth EU project*

Speaker (TBD)

*Biobased innovation for sustainable agriculture and soil regeneration, European Bio-based Industries Consortium (BIC)*

Speaker (TBD)

*Research and Innovation for more sustainable management of water and agri-food systems in the Mediterranean basin. Italian Technology Cluster fo Blue Growth "BIG"*

Speaker (TBD)

Closure by the Chairs

# THURSDAY 7 NOVEMBER

THURSDAY 7  
NOVEMBER

09:30 -  
16:00

Agorà Blue  
Economy B8 Pav.

**Water cycle and  
Blue Economy**

*Onsite event*

[Click here](#)

Accelerating Blue Interregional Cooperation in the Mediterranean Basin. Sharing a common strategic vision, creating transferrable collaboration models

Language: English

Simultaneous translation: Italian

**organized by Organized by: Ecomondo STC & Cluster BIG Blue Italian Growth, Italian Ministry of Foreign Affairs and International Cooperation**

The Mediterranean seabasin is an area with a huge potential, given its 46.000km of coastline extension, its unique marine and fish resources and emerging opportunities in several blue economy sectors. Given the existing initiatives, opportunities and priorities to ensure a sustainable blue economy it's crucial the cooperation among Mediterranean countries to boost sustainability and digitalisation, in particular with the involvement of blue economy clusters.

Throughout the morning session we will hear about the emerging clusters initiatives in the southern shore countries, and look at the various cooperation model and learn about direct experiences of clusters coming from northern and southern shore countries. In the afternoon actions towards digitalisation in the blue economy will be discussed, analysing best practice in Italy and in other European and non-European countries.

## Programme

### Session 1 – *Internationalisation in the Mediterranean seabasin*

9.30-9.50 Introduction by the Chair

Roberto Cimino, Cluster BIG

Alessandra Sensi, UfM (TBC)

9.50-10.20 *Internationalisation in the Mediterranean: cooperation models in northern and southern shores towards sustainable blue economy*

Manzari/Bocci, WestMED (TBC)

10.20-10.50 *Mapping cluster initiatives in the southern shore countries*

Representative of Cluster BIG

Laurence Martin, FdM (TBC)

10.50-11.20 *Piloting activities in the Southern shore: strengthening emerging maritime clusters ecosystem*

Elizabeth Domínguez Chapman, Cluster Maritimo Andaluz (TBC)

Nesrine Rekia Ziad, LEANCUBATOR Algeria (TBC)

Hamadi Baba Hamadi, Cluster Maritime Mauritanien (TBC)

11.20-11.40 Coffee break

11.40-12.10 *Policy makers engagement*

Representative of CMT (TBC)

Lidia Rossi, ForMare (TBC)

12.10-12.40 Panel discussion: ***Blue Economy priorities in northern and southern shore***

Moderator:

Roberto Cimino, Cluster BIG

Participants: all clusters representatives

12.40-13.00 Wrap-up & Conclusions

13.00-14.00 Lunch break

***Session 2 – Italian Ecosystem towards digitalisation in the blue economy: best practice sharing***

14.00-14.20 Introduction by the Chair

Emilio Campana, Cluster BIG, CTS Coordinator

14.20-14.40 *iNEST - Interconnected Nord-Est Innovation Ecosystem*

Research and technological transfer activities in the sector of maritime, marine and inland water technologies. Development of a Digital Ocean of the North Adriatic area, integrating AI, ecosystem models and observed data.

Stefano Querin, OGS & Research topic manager on Inest's North Adriatic Digital Twin

Vittorio Bucci, University of Trieste & Research topic manager on Inest's Sustainable waterway mobility

14.40-15.00 *RAISE - Robotics and AI for Socio-economic Empowerment*

Improve the strategy and methodologies of environmental monitoring and protection for the sea in the Ligurian territory. Innovative robotic systems managed by AI for marine monitoring, with increased mission range and better data quality (widespread, integrated and dynamic-adaptive monitoring)

*On constructing an intelligent digital environment for ports and maritime transport*

Davide Giglio, University of Genova & RAISE

*Citizen science actions to empower ocean digitalization*

Marco Faimali, CNR & RAISE

Antonio Novellino, ETT spa & RAISE

15.00-15.20 *MOST - National Center for Sustainable Mobility*

Making the mobility system "greener" as a whole and more "digital" in its management. Electric and hydrogen propulsion solutions and systems. Digital systems and autonomous driving to reduce accidents; more effective solutions for public transport and port logistics; a new model of mobility, as a service, accessible and inclusive.

Daniele Filippone, Fincantieri (TBC)

Alessandro Iafrazi, Director of INM-CNR & Spoke Coordinator (TBC)

15.20-15.50 ***Panel discussion – interaction with southern shore representatives on the topic***

Moderator:

Emilio Campana, Cluster BIG (TBC)

Participants:

all north-south clusters and Italian ecosystems' representatives



15.50-16.00 Wrap-up and conclusion

THURSDAY 7  
NOVEMBER

10:00 -  
12:30

Noce Room A6  
Pav.

**Resource  
efficiency and  
Circular  
Economy**

*Onsite event*  
[Click here](#)

## The new opportunities for polyurethane recycling

Language: Italian

**organized by Ecomondo STC & CETMA Research and Technology organisation, ERION**

Polyurethane, especially in rigid or flexible foam form, is widely used in various sectors (construction, electronics, furniture packaging, industry). Critical issues related to its disposal may call into question its widespread use in future years. The conference aims to promote a virtuous comparison between the players in the supply chain, providing useful information to promote alternative solutions to landfilling.

In particular, an effective mechanical recycling process will be presented, among others.

### Session Chair

Alessandro Marseglia, CETMA Research and Technology organisation

### Programme

10.15 Greetings and Introduction by the Session Chair

#### *Analysis of regulations*

Daniele Bonato, ERION (TBC)

#### Management of PU from WEEE

Luca Gentilini, COBAT

#### *Post-consumer mattress management*

Serena Ceccarelli, Gruppo HERA (TBC)

#### *Up-cycling of manufacturing by-products*

Speaker (TBD)

#### *High-value recycled PU*

Antonella Tarzia, CETMA

#### *Innovative PU recycling equipment*

Luca Querci, CORMATEX

#### Recycling PU requirements for high-performance panels

Rocco Traini, ISOPAN (TBC)

12.15 Closure by the Chair

THURSDAY 7  
NOVEMBER

10:00 -  
13:00

Ravezzi 2 South  
Hall

**Resource  
efficiency and  
Circular  
Economy**

*Onsite event*

[Click here](#)

## Next Generation EU and Circular Economy

Language: Italian

**organized by Ecomondo STC & ISPRA (Italian Institute for Environmental Protection and Research), Italian Ministry of Environment and Energy Security**

The National Recovery and Resilience Program (PNRR) dedicates 2.1 billion euros to improving the efficient and sustainable management of waste and for the development of innovative technologies to boost the circular economy on a national scale, with the aim of bridging the structural gaps that, especially in the centre-south, are the real obstacle to the development of integrated management. The PNRR is first and foremost a plan by objectives, and in this sense the approved reforms (National Strategy for the Circular Economy and National Waste Management Programme) are fundamental programmatic tools for public and private operators. Italy has been able to respond with a large number of projects submitted by both the public and the tried and tested sector.

2024 is a key year in the implementation of the investments and reforms of the PNRR.

This conference will be an opportunity to analyze the progress made and any critical issues that have emerged through discussions between institutions and operators.

### Session Chair

Valeria Frittelloni, Head of Department of Environmental Assessment, Monitoring and Sustainability, ISPRA

### Programme

Laura D'Aprile, Head of the Sustainable Development Department of the Italian Ministry of the Environment and Energy Security

Maria Siclari, ISPRA

Representative of Utilitalia

Representative of Confindustria

Representative of ANCI (National Association of Italian Municipalities)

Representative of CONAI

THURSDAY 7  
NOVEMBER

10:00 -  
13:00

Ravezzi 1 Room  
South Hall

**Policies and  
regulatory  
frameworks**

*Onsite event*

[Click here](#)

## The regulation of waste in the light of the circular economy paradigm: cost breakdown and review of the fee regulation

Language: Italian

**organized by Ecomondo STC & UTILITALIA (Italian federation of energy, water and environmental services)**

During 2024, the Regulatory Authority's action in the waste sector moved along two converging lines: on the one hand, the Authority launched a procedure for the development of directives for the accounting and administrative separation of business which, through a correct disaggregation of costs, lays the foundations for transferring an increasingly precise price signal to users; on the other hand, the Authority has started a review of the fees regulation, intervening on the criteria for dividing tariff revenues between household and non-household users, also encouraging the gradual transition to a pay-as-you-throw system. The Authority's organic intervention aims to introduce pricing systems that provide adequate price signals to users, in compliance with the "pay-as-you-throw" principle, with positive effects also in terms of waste prevention. The conference aims to compare the different (institutional, industrial, public, private) stakeholder's points of view in order to analyze the effect of recent regulatory interventions on the operational activity of waste management operators.

### **Programme**

*Introduction and coordination by the Chairman*

Representative of Utilitalia

*Governance, management, regulation: snapshots of the national situation*

Representative of Utilitatis

*Evaluation on the new regulatory measures*

Representative of Utilitalia

Representative of ASSOAMBIENTE

Representative of IFEL-ANCI

Representative of ANEA (National Association of Area Government Bodies for Water and Waste)

### **Panel discussion: stakeholders' point of view on new regulatory measures**

Moderator:

Representative of Utilitalia

Representative sample of waste management operators

*Conclusions*

Representative of ARERA

THURSDAY 7  
NOVEMBER

10:00 -  
13:00

Agorà Fellini –  
Sites & Soil  
Restoration Area  
C3 pav.

**Resource  
efficiency and  
Circular  
Economy**  
*Onsite event*  
[Click here](#)

## The new End-of-Waste regulation on C&D waste

Language: Italian

### **organized by Ecomondo STC & ASSOAMBIENTE-ANPAR (National Association of Recycled Aggregates Producers)**

The new revision of the End of Waste Regulation for inert waste from construction and demolition activities and other inert waste of mineral origin, which repeals and replaces the current DM 152/22 and will effectively enter into force in 2025, will introduce important novelties in the C&D waste recovery sector. Operators have been waiting for a long time for the resolution of at least some of the operational issues (the way recycled materials are stored, the management of small quantities of asbestos cement fragments in aggregates) that they have to face on a daily basis and which they hoped would find an answer in the End of Waste Regulation published in 2022 and corrected this year, but this has not been the case. Against some significant improvements (e.g. the limits on eluate for sulphates and chlorides and the introduction of the technical standards of compliance and suitability), environmental tests were also introduced on the solid aggregate matrix, which could create barriers to the recovery of C&D waste and/or limit its uses and market. Now the operators are relying on the monitoring period to improve the situation that has arisen and that needs to continue the fruitful discussion with the Ministry for the Environment and Energy Security and its technical bodies, which started when the first changes were needed.

The seminar is intended to encourage discussion between the authorities and the entire recovery chain in order to accelerate the application of the circular economy in the construction sector.

### **Session Chairs**

Paolo Barberi, ANPAR

### **Programme**

10.30-10.40 Introduction by the Chair

10.40-11.00 *The revision of European standards in the C&D waste recovery sector*  
Mattia Pellegrini, DG ENV European Commission - B3 "Waste management and secondary material"

11.00-11.20 *Existing End of Waste Regulations in the Member States*  
Geert Cuperus, FIR

11.20-11.40 *The Italian End of Waste Regulation: the need for corrections and interpretative doubts*  
Giorgio Bressi, Technical Director ANPAR

11.40-12.45 Round table  
Moderated by:  
Elisabetta Perrotta, Director of Assoambiente

**Speakers:**

Vannia Gava, Vice Minister of Environment and Energy Security

Valeria Frittelloni, ISPRA

Federica Scaini, National Institute of Health

Paolo Barberi, ANPAR

Stefano Panseri, NADECO

Sara Ricci, ANCE

Pietro Bruni, RFI

Francesco Poma, Webuild

Edoardo Zanchini, Legambiente

12.45-13.00 Conclusions

THURSDAY 7  
NOVEMBER10:00 -  
13:00Diotallevi 1 Room  
South Hall**Resource  
efficiency and  
Circular  
Economy**  
*Onsite event*  
[Click here](#)

## Measurement and Communication of carbon footprint and carbon neutrality of business

Language: Italian

**organized by Ecomondo STC & Sant'Anna School of Advanced Studies, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), Global Compact Network Italia**

The topic of carbon footprint measurement has become increasingly important and has spread from the largest to the smallest companies, especially with the emergence of the so-called "scope 3" approach, which is considered increasingly necessary to ensure a credible commitment to decarbonization by companies, involving the supply chain and, in more advanced versions ("scope 4"), the entire value chains, to cover the entire life cycle of products and services that the organization offers in the market, including their end-of-life. The most recognized international initiatives, such as the Science Based Target, require companies to report thoroughly and comprehensively on the emissions of their supply chains. The tools for measurement are diverse, although, for obvious reasons, the life-cycle approach is emerging as the most robust, especially from the perspective extended to value chains even downstream of the production and marketing of goods and delivery of services. At the same time, mandatory legislation and voluntary standards are increasingly requesting to fully integrate the carbonisation in all management strategies. Example of this are the requirements of decarbonisation plan in different EU Directive proposal and the inclusion of decarbonisation as a key element of the ISO High Level Structure for management systems. Moreover very strong emphasis has been put by the European Union on the way in which carbon neutrality claims can be communicated on the market following strict rules.

The workshop, following the previous edition in 2023 aims to analyse the challenge of measuring CO<sub>2</sub>eq emissions in its various dimensions, placing itself primarily from the perspective of businesses.

### Session Chairs

Marco Frey, Sant'Anna School of Advanced Studies and President of Global Compact Network Italia

Claudia Brunori, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) - Department of Productive and Territorial Systems Sustainability

## Programme

10.00-10.20 *Introduction to the evolution of mandatory legislation and voluntary standards towards an increasing role of decarbonisation*

Marco Frey, Sant'Anna School of Advanced Studies

10.00-10.20 *Addressing the challenges of a consistent carbon footprint across sectors and applications*

Representative of European Commission

Session on

***The evolution of national and international initiatives related to carbon footprint measurement in the perspective extended to supply chains and value chains***

10.40-11.00 *The survey and the initiatives put in place by the UN Global Compact*

Laura Capolongo, UNGCIN

11.00-11.20 *Climate Related Claims in the new European Commission Legislative initiatives*

Fabio Iraldo, Sant'Anna School of Advanced Studies

11.20-11.35 *ARCADIA national LCA database*

Caterina Rinaldi, ENEA

11.40-12.50 Session on

***Experiences of carbon management and communication by companies***

Carlo Felice Chizzolini, General Director Industry and Environment, Sammontana (TBC)

Gianluca Gramegna, Head of Environment, Social & Governance, Erg (TBC)

Ilaria Lenzi, San Pellegrino (TBC)

Nevio Benvenuto, Gucci (TBC)

Marco Codognola, Itelyum (TBC)

David Brussa, Illy (TBC)

Daniele Sartori, Artsana (TBC)

Silvia Scalia, GS1 (TBC)

12.50-13.00 Discussion and closure by the Chairs

THURSDAY 7  
NOVEMBER

10:00 -  
13:00

Agorà Flaminia –  
Sites & Soil  
Restoration Area  
C1 pav.

**Sites & Soil  
Maintenance  
and Restoration**  
*Onsite event*  
[Click here](#)

## Remediation of contaminated sites: where we are? Evolution of environmental regulation and technological innovation

Language: Italian

**organized by Ecomondo STC & Sapienza University of Rome, UNEM  
(Energies for Mobility Union), Legambiente (Italian environmental  
association)**

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.

### Session Chairs

Marco Petrangeli Papini, Sapienza University of Rome  
Donatella Giacometti, UNEM  
Giorgio Zampetti/Andrea Minutolo, Legambiente

### Programme

10.00-10.15 Greetings and introduction by the session presidents

10.15-10.30 Institutional intervention  
Representative of Italian Ministry of Environment and Energy Security  
Representative of 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:  
Representative of Legambiente  
Representative of trade association  
Representative of client companies  
Representative of environmental operators  
Representative of Italian Ministry of Environment and Energy Security  
Representative of ISPRA / SNPA

12.50-13.00 Conclusions

THURSDAY 7  
NOVEMBER

10:00 -  
13:00

Ravezzi 2 South  
Hall

**Circular and  
Regenerative  
Bioeconomy**

*Onsite event*

[Click here](#)

## States general for soil health – III edition: opportunities for soil regeneration and climate neutrality: carbon farming and nature-based solutions. International session

Language: English

Simultaneous translation: Italian

**organized by Ecomondo STC & European Mission A Soil Deal for Europe, Re Soil Foundation, Coldiretti (Federation of Italian Farmers), National Bioeconomy Coordination Board (NBCB)**

According to the European Soil Observatory, about 60 to 70% of soils in the EU are currently likely to be affected by one or more soil degradation processes, among all by soil sealing.

Agricultural soils annually lose 7.4 million tons of CO<sub>2</sub> due to the too-rapid mineralization that occurs, almost unnoticed, under agricultural crops, the same soil where seventy-eight percent of soil consumption occurs. E

cosystems in the Mediterranean area are particularly vulnerable and the region itself is warming 20% faster than the global average (source: UNEP).

Unhealthy soil generates side effects and is unable to provide essential ecosystem services, such as: producing safe nutrition and food, providing biodiversity, purifying and regulating water and its cycle, ensuring adequate nutrient cycling, storing CO<sub>2</sub> contributing to carbon and mitigating climate, and ultimately supporting human activities as a whole.

Lately, the debate about the urgent need for soil conservation has increased at all levels in Europe, partially due to the efforts of the European Mission “A Soil Deal for Europe”. And the publication of the Soil Strategy in November 2022 launched the process to adopt a Directive on Soil Monitoring and Resilience.

The third edition of the “States General for Soil Health – opportunities for soil regeneration and climate neutrality: carbon positive actions and nature-based solutions” will take place on 7th November 2024. In the morning session, the latest European policy updates and an overview of the key elements needed to protect soil health, such as carbon farming and nature-based solutions, as well as best practices for soil regeneration on different types of soil's use will be explored and discussed. The afternoon session will offer an overview of the Italian scenario, with a focus on regenerative agriculture and on best practice of soil regeneration in the local communities.

### Morning Session

#### Session Chairs

Arwyn Jones, JRC (TBC)

David Chiaramonti, Turin Polytechnic & Member of Re Soil Foundation Scientific Technical Committee

#### Programme

10.00-10.15 *Keynote*

Catia Bastioli, Novamont (TBC)



10.15-10.30 *Welcome*

Massimiliano Conti, MASE (TBC)

10.30-10.40 Introduction by the Chairs

10.40-11.30 ***European policy framework update***

10.40-10.55 *Status of EU Soil legislation on soil, carbon farming, nature-based solutions*

Panos Panagos, JRC (TBC)

10.55-11.10 *Status of Carbon removal certification framework in EU*

Valeria Forlin, DG CLIMA (TBC)

11.10-11.25 *Status of the EU mission "A Soil Deal for Europe"*

Kerstin Rosenow, HOU DG AGRI (TBC)

11.30-12.05 ***Best practice for soil regeneration***

11.30-11.40 *Agricultural soil*

Speaker, LILAS4SOILS- Fostering Carbon Farming Practices through Living LABs in the Mediterranean and Southern EU for the healthy future of European SOILS (TBC)

11.40-11.50 *Urban/peri-urban soil*

Christophe Schwartz, Advisor at the French Ministry of Higher Education and Research, DESSERT project (TBC)

11.50-12.00 *Forests*

Antonio Brunori, PEFC Italy President (TBC)

12.05-12.40 ***Panel: Nature-based solutions: case studies***

Moderated by:

Virginia Puzzolo, CBEJU Head of programme unit

12.15-12.25 *B-FERST-Bio-based FERTilising products as the best practice for agricultural management SusTainability*

12.25-12.35 *BeonNAT - Innovative value chains from tree & shrub species grown in marginal lands as a source of biomass for bio-based industries*

12.40 Q&A and Conclusions

THURSDAY 7  
NOVEMBER

10:00 -  
18:00

Tiglio Room A6  
pav.

Resource  
efficiency and  
Circular  
Economy

Onsite event

[Click here](#)

## Innovative solutions for waste prevention and circular resources management

Language: Italian

**organized by Ecomondo STC & Italian Chemical Society – Division Environmental and Cultural Heritage Chemistry, Italian LCA Network – WG Waste Management and Treatment**

### **OPEN TO PAPERS**

At a European level, most EU Countries have carried out waste prevention initiatives, even though different targets and indicators are used, which make the comparison quite difficult. A fundamental contribution to this virtuous process can derive also from the initiatives of single organisations. Together with prevention practices, to pursue a greater overall sustainability, actions of circular management of end-of-life management actions are decisive. To this end, suitable assessment tools that could highlight the environmental benefits coming from the proposed solutions must be adopted.

In this seminar, new approaches, good practices and case studies will be presented, which can show remarkable advancements in the achievement of more sustainable procedures of prevention and management of residues, discards, by-products, both from industrial and municipal sources.

### **Session Chairs**

Fabrizio Passarini, Ecomondo STC, University of Bologna

Silvia Fiore, Polytechnic University of Turin

Danilo Bonato, Managing Director Erion

### **Programme**

9.30 Introduction by the Chairs

9.45-10.00 *Horizon Project "Chorizo": Changing practices and Habits through Open, Responsible, and social Innovation towards ZerO food waste*

Matteo Vittuari, University of Bologna

10.00-10.15 *ERION contribution*

*Speeches selected from the Call for Papers*

17.15-17.30 Discussion and closure by the Chairs

POSTER SESSION

THURSDAY 7

NOVEMBER

10:15 -

13:00

Agorà Malatesta –  
Environmental  
Monitoring Area  
D8 pav.

**Water cycle and  
Blue Economy**

Onsite event

[Click here](#)

What waters tell you about ... health: risk assessment methodologies, monitoring, sustainable finance, business opportunities and treatment upgrading

Language: Italian

**organized by Organized by: Ecomondo STC & National Health Institute, EC/JRC, UTILITALIA (Italian federation of energy, water and environmental services), Marche Polytechnic University, ASSOARPA (National Association of Regional Environmental Protection Agencies)**

### [OPEN TO PAPERS](#)

#### CALL FOR PAPERS

The water and health nexus has been upgraded from the issues related mainly to pro contaminated water and poor sanitation to several opportunities that span from innovative technologies, investments and business, support for advanced monitoring to prevent possible pandemics. This workshop will highlight how risk-based approach is now mainstreaming the new EU directives and regulations, so as to pave the way for a paradigm shift. In addition, results from interfaces between water and health experts will allow the definition of the current state of the art and perspective for joint industrial development of the sectors.

#### Session Chairs

Bernd Gawlik, Ecomondo STC and Joint Research Centre, European Commission  
Luca Lucentini, Ecomondo STC and Italian National Health Institute

#### Programme

10.15 Introduction by the Chairs

*EU-wide studies for water and health nexus*

Bernd Gawlik, EC JRC, portfolio leader water quality

*Methodologies for risk-based approaches*

Luca Lucentini, Istituto Superiore di Sanità

*Risk management and water reuse: case studies*

Francesco Fatone, Marche Polytechnic University

Attilio Toscano, University of Bologna

11.30 *Speeches selected from the Call for Papers*

12.30 Discussion and closure by the Chairs

POSTER SESSION

THURSDAY 7  
NOVEMBER

10:15 -  
13:00

Agorà Tiberio –  
Water Cycle Area  
D8 pav.

**Water cycle and  
Blue Economy**

*Onsite event*  
[Click here](#)

## Digitalization and optimization of the efficiency of water networks: from PNRR interventions to research and innovation actions

Language: Italian

**organized by Ecomondo STC & Marche Polytechnic University, University of Bologna, UTILITALIA (Italian federation of energy, water and environmental services)**

### [OPEN TO PAPERS](#)

Digital technologies are impacting nearly every sector in the water industry. Water utilities of all sizes — private and public — are shifting the way they operate and manage resources. Utilities are embracing digitalization to address problems ranging from aging water infrastructure to optimizing resource allocation. The national recovery funding is playing a crucial role in boosting digitalization of water infrastructure, while several innovation projects are implanting aligning the water sector to the digital transition. The workshop will present a framework of how projects funded by the PNRR are progressing and the most promising innovation projects selected from the Call for Papers.

### **Session Chairs**

Attilio Toscano, Ecomondo STC and University of Bologna  
Representative of UTILITALIA

### **Programme**

10.15 Introduction by the Chairs

10.15-10.30 *Current progress of PNRR for digitalizing the water distribution systems*  
Representative of Italian Ministry of Infrastructure and Transport (TBC)

10.30-10.45 *Case studies from water utilities*  
Speaker (TBD)

10.45-12.15 ***Speeches selected from the Call for Papers***

12.15 *Discussion and closure by the Chairs*

*POSTER SESSION*

THURSDAY 7  
NOVEMBER

10:30 -  
12:30

Agorà Ariminum –  
Circular Economy  
Area D1 pav.

**Resource  
efficiency and  
Circular  
Economy**

*Onsite event*  
[Click here](#)

## REUSE, REPAIR, RETHINK, REFORM. Designing for Circularity and Responsible Innovation

Language: Italian

**organized by Ecomondo STC & MICS Foundation (Circular and Sustainability Made in Italy National Research Project), University of Bologna, EISMEA, (APRE Agency for the Promotion of European Research)**

Producing goods and services in Europe means distinguishing ourselves from global dynamics and processes by promoting values and quality that at a continental level represent our "way of doing quality industry with a high identity value". A way made up of many different visions with which to understand and implement circularity.

This conference intends to emphasize the most "noble" approaches of the circular economy: reuse, durability and repairability and, logically, eco-design. We will do so by presenting points of view and testimonies of an international scenario within the industrial manufacturing sector with respect to sustainability, observed both from the point of view of circularity (material dimension) and from the social one, read in particular through responsible innovation (immaterial dimension).

We intend to take stock of this phenomenon today in the panorama of production and scientific applications, involving some excellent experts as well as companies that in an original and courageous way are generating strongly recognized value through a transition to solutions based on these approaches.

The event is organized in two sessions, each of which focuses on the different dimensions of sustainability mentioned above (tangible and intangible). Each session includes inspirational interventions as well as case studies that show how those concepts are translated into real business in the EU.

The two sessions will be directly connected with an exhibition area where leading companies will showcase their activities in the field of reuse, repair, refit and eco-design.

### Session Chairs

Angelo Salsi, former Head of Department at European Commission  
Francesco Matteucci, former Programme Manager at EISMEA  
Flaviano Celaschi, Università of Bologna and MICS Foundation  
Laura Succini and Erik Ciravegna, Università of Bologna

### Programme

#### Session 1: *Setting the context*

Moderator:

Angelo Salsi, former Head of Department CINEA – European Commission

10.30 Introduction by the Moderator

*Circularity / Circular Economy / Circular Design Framework*

[Principles, Numbers, Perspectives]

Global Expert on Circular Economy

*The contemporary edge of the policy*

European Commission representative

*Case Study Related to Sustainability in its REUSE Dimension*  
Leading Company in the Second-Hand Market

*Case study Related to Sustainability in its REPAIR Dimension*  
EURONICS GEIE (TBC)

12.15 Debate

Lunch break

## **Session 2: Sustainability and its intangible dimension**

*Moderator:*

*Flaviano Celaschi, Full Professor at Alma Mater Studiorum - Università di Bologna and Spoke 1 Leader of MICS-Made in Italy Circolare e Sostenibile (PE11 PNRR)*

14.30 Introduction by the Moderator

*Design for Transition (Political, Economic, Social, Technological, Environmental, Social)*  
*[Tools and Cases]*

Academic Expert on Transition Design

*Responsible Innovation and Practical Effects on Business*

Academic Expert on Corporate Responsibility and Sustainability

*Case Study Related to Sustainability in its RETHINK Dimension*  
*(New Business Models, Systemic Design)*

Leading Company in Eco-Design and Repairability

*Case Study Related to Sustainability in its REFORM Dimension (e.g. Ethics, Gender Equity, Inclusion, Open Access...)*

Leading Company in Sustainable Processes in Extreme Environments

*The Digital Advanced Design Approach: Cases and Tools for Experimentation: from the MICS (Made In Italy Circular And Sustainable) Project in Innovative Processes and Products (PNRR PE11 Spoke 1)*

Erik Ciravegna, Laura Succini, Researchers at Alma Mater Studiorum - Università di Bologna

Debate

16.15 Closing statements

THURSDAY 7  
NOVEMBER

14:00 -  
17:00

Noce Room A6  
Pav.

**Resource  
efficiency and  
Circular  
Economy**

*Onsite event*

[Click here](#)

Language: Italian

THURSDAY 7  
NOVEMBER

14:00 -  
17:00

Diotallevi 1 Room  
South Hall

**Resource  
efficiency and  
Circular  
Economy**

*Onsite event*

[Click here](#)

## Measuring circularity of product and services in the prospect of new design regulation

Language: Italian

**organized by Ecomondo STC & Sant'Anna School of Advanced Studies, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)**

The event will focus on measuring the circular economy, a topic that is increasingly felt at different levels: system, sector, enterprise, and product. Following the success of the 2022 and 2023 initiatives, this year's workshop will look at the evolution of circularity measurement considering both the development of national and international legislation standards and the diffusion of experiences in the different sectors.

In particular this year focus will be on methods and processes to measure circularity of products and services, by using innovative tools based on check-up approaches as well as LCA-based circularity indicators.

The workshop aims to present an overview of the different international and national approaches and then explore the usefulness of measurement with companies and associations that have applied the different approaches and can contribute to the refinement of the available tools.

### Session Chairs

Marco Frey, Sant'Anna School of Advanced Studies  
Claudia Brunori, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) - Department of Productive and Territorial Systems Sustainability

### Programme

14.00-14.20 *Introduction to the evolution of approaches and experiences in the area of circularity measurement*

Marco Frey, Sant'Anna School of Advanced Studies

Session on

***The evolution of national and international initiatives related to measurement in the circular economy***

14.20-14.40 *The product and services related requirements in UNI-ISO standards*

Laura Cutaia, ENEA - UNI 57 CT chair

14.40-15.00 *The point of view of the European Commission*

Michele Galatola, DG General for internal market, industry, entrepreneurship and SMEs, Dir. I3 – Green and Circular Economy

15.00-15.20 *How we can measure product circularity*

Fabio Iraldo, Sant'Anna School of Advanced Studies

15.20-15.35 *The activities of GdL 3 of the ICESP Platform*

Filippo Servalli, RadiciGroup

15.35-15.50 *The experience of marble sector*

Speaker (TBD)

15.50-16.05 *The experience of the retail sector*

Speaker (TBD)

16.05-16.20 *The experience of Brembo*

Luca Pirastu, Brembo (TBC)

16.20-16.35 *The Ecocerved Project*

Marco Botteri, Filippo Corsini (TBC)

16.35-16.50 *The experience of ENI*

Paola Volpe, Eni (TBC)

16.50-17.05 *The experience of Enel*

17.05-17.15 Discussion and closure by the Chairs

THURSDAY 7  
NOVEMBER

14:30 -  
17:00

Agorà Flaminia –  
Sites & Soil  
Restoration Area  
C1 pav.

**Sites & Soil  
Maintenance  
and Restoration**  
*Onsite event*  
[Click here](#)

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

Language: Italian

**organized by Ecomondo STC & Sapienza University of Rome, UNEM (Energies for Mobility Union), ISPRA (Italian Institute for Environmental Protection and Research)**

**OPEN TO PAPERS**

The conference will be more specifically dedicated to the remediation technologies with case studies that highlight their actual extent and their limits.

**Session Chairs**



Marco Petrangeli Papini, Sapienza University of Rome  
 Donatella Giacometti, UNEM  
 Fabio Pascarella, ISPRA

## Programme

Interventions selected from the *Call for Papers*

14.30-14.45 Greetings and introduction by the session presidents

14.45-16.45 *Speeches from the Call for Papers*

16.45-17.00 Debate and conclusions

THURSDAY 7  
 NOVEMBER

14:30 -  
 17:00

Tulipano Room B6  
 pav.

**Water cycle and  
 Blue Economy**

*Onsite event*

[Click here](#)

## Waste reduction and management in fishing ports to promote sustainable fisheries

Language: Italian

**organized by Ecomondo STC & University of Padua, Legacoop  
 Agroalimentare Northern Italy, Lavoratori del Mare Fisheries Cooperative**

Marine litter and plastic pollution are a global issue threatening marine ecosystems. Fisheries, fishing ports and seafood supply chains can be a source of the litter directly or indirectly released into the sea, but they are also a central part of the solution: for example, they can substantially contribute to reducing pollution by 'Fishing for Litter' or adopting more sustainable management practices. This session aims to bring together governmental, academic and private stakeholders, including fishery representatives and ports, to discuss open problems related to sustainable marine litter management as well as the pros and cons of different solutions. Talks will showcase best practice examples, such as the Interreg Italy-Croatia project FishNoWaste (2024-26) focusing on waste management in Adriatic fishing ports, explore current regulations, and describe the sustainability of supply chains in a circular economy perspective, with a final round table.

### Session Chairs

Alberto Barausse, University of Padua  
 Tommaso Musner, University of Padua

### Programme

14.30 Introduction by the Chairs

*Intervention by managing authority*

Representative of Veneto Region

Intervention by Rimini Municipality

*FishNoWaste project presentation*

Representative of University of Padua

*The EU Mission "Restore our Ocean and Waters by 2030"*

*BlueMed Initiatives*

*Regulatory analyzes regarding Marine Litter*

*International case studies and best practices*

*Supply chains of litter and of seafood: issues and potential*

Round table on waste management in fishing ports

17.00 Discussion and closure by the Chairs

# FRIDAY 8 NOVEMBER

FRIDAY 8  
NOVEMBER

10:00 -  
13:00

Agorà Tiberio –  
Water Cycle Area  
D8 pav.

**Policies and  
regulatory  
frameworks**

*Onsite event*  
[Click here](#)

## Evidence and innovative perspectives of the MTI4 in water sector

Language: Italian

**organized by Ecomondo STC & ARERA (Italian Regulatory Authority for Energy, Networks and Environment), REF Ricerche, UTILITALIA (Italian federation of energy, water and environmental services)**

The MTI-4 for the period 2024-2029 lays the foundations for a more resilient water service capable of responding to the challenges related to climate change.

Restoration of natural capital, construction of large reservoirs, promotion of wastewater reuse, energy neutrality, development of renewables, management of urban drainage, are all ingredients of a holistic and sustainable approach to the industrial development of the sector. Environmental sustainability passes through coordinated planning at the various levels of governance and requires industrial actors capable of deploying all the tools made available by national regulation.

### Session Chairs

Donato Berardi, Director of REF Laboratory

### Programme

10.00 Introduction by the Chairs

10.10-10.30 *First lessons from MTI-4: an overview*

Samir Traini, REF Ricerche

10.30-10.50 *Energy supply: how MTI4 has influenced purchasing patterns*

Gaia Rodriguez/Paolo Carta, Utilitalia

10.50-11.10 *Possible solutions and impacts from EU-funded innovation actions: the interaction with ARERA regulation*

Francesco Fatone, Marche Polytechnic University

11.10-12.30 *Round Table*

Companies' representatives

Chair of round table:

Giordano Colarullo, Utilitalia

12.30-13.00 Discussion and closure

Andrea Guerrini, ARERA

FRIDAY 8  
NOVEMBER

10:15 -  
13:00

Agorà Augusto –  
Bioeconomy Area  
D2 pav.

**Agroecology and  
Bioenergy**  
Onsite event  
[Click here](#)

## Wood and biomaterials for construction: a path to decarbonisation and circular economy

Language: Italian

**organized by Ecomondo STC & Confagricoltura (General Confederation of Italian Agriculture), AlberItalia Foundation, National cluster Forestry-wood**

### [OPEN TO PAPERS](#)

Timber and biomaterials are an increasingly strategic resource for green building and for fighting climate change thanks to their ability to replace products from fossil sources, to recover waste biological materials, and to improve the energy performance of the environments built, and above all carbon storage over time.

Although the prospects of the sector have been discussed for several years, the diffusion of such buildings is still very limited, except in some specific contexts, and this is also in relation to the lack of specific policies and measures for the green building sector. A situation that could see an evolution also thanks to the definition of the carbon farming certification system for wood products; also considering the sensitivity of citizens on the issues of sustainability and health linked to biomaterials in construction.

Starting from these elements, the objective of the conference is to analyze with representatives of the world of research, associations, professionals, local administrators, etc., the strengths and weaknesses of the sector, at a national level, for a reflection on what levers should be activated to spread a model of housing and construction with lower impact, greater efficiency, and more linked to the resources of our territory, at competitive costs. This with reference to the different biomaterials and dispelling some myths about the safety of buildings made with biobased materials.

### Session Chairs

Roberta Papili, Confagricoltura  
Silvia Piconcelli, Confagricoltura

### Programme

10.15 Greetings  
Enrico Allasia, Confagricoltura

10.30-10.45 Introduction  
*The New European Bauhaus*  
(European Commission contact person) or (CEI BOIS Technical Director) (TBC)

10.45-11.00 *Collaboration between science, industry and architecture*  
Nike Krajnc, Slovenian Forestry Institute

11.00-11.15 *National policies and strategies for the new model of European construction*  
Representative of Difor

11.15-11.30 *The supply of raw materials for construction in Italy*

Marco Marchetti, Fondazione Albertalia

Davide Pettenella, Cluster Italia Foresta Legno

11.30-11.45 *Innovative and sustainable architecture*

Representative of Studio Boeri (TBC)

11.45-12.00 *Construction strategies for decarbonisation*

Representative of Klimahouse (TBC)

12.00-12.15 Case studies and Call for Papers

12.15-13.00 Round table: *Proposals for the organization of an Italian supply chain*

13.00 Conclusions