

>> Dates, time and rooms are still indicative and may vary according to emerging needs <<

1.

Tuesday, 3 November, 9.30-18.00, Tiglio room, A6 Pav.

Technological solutions for resources recovery from end-of-life products and materials in the Mediterranean landscape

Organized by: Ecomondo Scientific Technical Committee & Italian Chemical Society – Division Environmental and Cultural Heritage Chemistry, ISWA international, ATIA – ISWA

EVENT LANGUAGE: ENGLISH WITH SIMULTANEOUS ITALIAN TRANSLATION

Despite growing attention to circular economy principles, large quantities of waste continue to be disposed of rather than recovered, leading to the permanent loss of materials that still hold considerable value. In many cases, it is the lack of adequate technological solutions that prevents these resources from re-entering production cycles. This situation entails not only an economic problem but also a strategic weakness, as it increases reliance on primary raw materials imported. For this reason, advancing innovative processes – developed both by research centers and industrial actors – and promoting the exchange of successful practices among countries, especially within the Mediterranean region, becomes essential for supporting industrial development in a more sustainable direction.

During this seminar, several emerging technologies capable of improving resource recovery and enhancing environmental performance across various sectors will be presented and discussed.

Coordinators

Paola Muraro and Paolo Massarini, ATIA – ISWA
Fabrizio Passarini, Ecomondo Scientific Technical Committee
Lucia Rigamonti, Polytechnic University of Milan

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2.

Thursday, 5 November, 10.00-17.30, Tiglio Room, A6 Pav.

Innovative systems for waste prevention and circular resources management

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

EVENT LANGUAGE: ITALIAN

Within the European Union's waste hierarchy, prevention occupies the highest priority, as it directly reduces the use of resources and avoids the need to treat complex waste streams. To be effective, prevention strategies must be complemented by end-of-life management approaches that keep materials circulating for as long as possible. This requires combining multiple recovery and reuse options, increasingly supported by digital technologies and artificial intelligence. Ensuring that environmental assessment procedures guide both corporate strategies and public policies remains essential, and this depends on selecting robust and meaningful sustainability indicators. This seminar will showcase practical examples and case studies on waste prevention, the management of by-products and production residues, and methods for assessing environmental performance aimed at improving recycling and recovery operations.

Coordinators

Danilo Bonato, Ecomondo Scientific Technical Committee
Silvia Fiore, Turin Polytechnic University
Fabrizio Passarini, Ecomondo Scientific Technical Committee

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3.

Wednesday, 4 November, 10.00-13.00, Mimosa Room, B6 Pav.

Industrial Symbiosis, Resource Audit and Circular Eco-districts in Italy through the Implementation of a National Plan: opportunities and challenges

Organized by: Ecomondo Scientific Technical Committee & ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), SUN Symbiosis Users Network

EVENT LANGUAGE: ITALIAN

The systematic adoption of industrial symbiosis solutions, resource audit practices, and the transition towards circular eco district models representing the Italian evolution of eco industrial parks is progressively establishing itself as an operational approach within national production systems. In line with the main European policies supporting the transition towards a circular economy (Circular Economy Action Plan, Green Deal, EU Industrial Strategy, Clean Industrial Act, Industrial Accelerator Act, ...), the development of a National Plan dedicated to these strategies may represent a significant added value for the country. This also includes the introduction of appropriate tools aimed at promoting the dissemination of standardized methodologies and interoperable digital instruments. Within this framework, the 10th edition of the Conference of the Italian Industrial Symbiosis Network (SUN) aims to collect technical and scientific contributions from organizations that have implemented industrial symbiosis initiatives, resource audits, and sustainability and circularity solutions within industrial areas, thus contributing to the transition towards eco industrial park models. Contributions are also invited on support tools, digital platforms, governance models, and planning initiatives adopted at national and local levels to promote the implementation and dissemination of these practices.

This edition of the conference is dedicated to the memory of Silvia Scaffoni, an ENEA researcher who devoted much of her scientific work, always with passion and competence, to these themes.

Coordinators

Tiziana Beltrani, ENEA – SUN Symbiosis Users Network
Laura Cutaia, ENEA – SUN Symbiosis Users Network
Marco La Monica, ENEA – SUN Symbiosis Users Network

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4.

Tuesday, 3 November, 14.30-16.30, Agorà Malatesta, B8 Pav.

Indoor air quality and health: trends and changes to understand for a national plan

Organized by: Ecomondo Scientific Technical Committee & National Institute of Health

EVENT LANGUAGE: ITALIAN

The conference aims to take stock of current changes and trends in indoor air quality, from climate to workplaces, energy performance to monitoring, fires to pandemic planning, dedicated legislation to the health needs of an ageing population, with the goal of promoting and facilitating comprehensive actions in line with European and WHO plans.

Coordinators

Gianluigi De Gennaro, Ecomondo Scientific Technical Committee

Gaetano Settimo, Ecomondo Scientific Technical Committee

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5.

Thursday, 5 November, 14.30-17.30, Agorà Malatesta, B8 Pav.

Odor emissions: from abatement technologies to new control strategies

Organized by: Ecomondo Scientific Technical Committee & ISPRA (Italian Institute for Environmental Protection and Research), Italian Chemical Society - CABC Division

EVENT LANGUAGE: ITALIAN

The Ecomondo Odor Emissions conference (at its sixteenth 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.

Coordinators

Gianluigi De Gennaro, Ecomondo Scientific Technical Committee
Lucia Muto, ISPRA (Italian Institute for Environmental Protection and Research)
Gaetano Settimo, Ecomondo Scientific Technical Committee

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6.

Wednesday, 4 November, 14.00-17.00, Agorà Augusto, D1 Pav.

Biowaste: XXVIII Conference on Composting and Anaerobic Digestion. Technical Session

Organized by: Ecomondo Scientific Technical Committee & CIC (Italian Composting and Biogas Association), ISPRA (Italian Institute for Environmental Protection and Research)

EVENT LANGUAGE: ITALIAN

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.

Coordinators

Alberto Confalonieri, CIC (Italian Composting and Biogas Association)

Ambrogio Pigoli, CIC (Italian Composting and Biogas Association)

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7.

Friday, 6 November, 10.00-13.00, Agorà Augusto, D1 Pav.

Deforestation and international agreements, nature restoration and poplar cultivation, ecosystem services and carbon farming: we give value to forest resources and woody crops

Organized by: Ecomondo Scientific Technical Committee & Confagricoltura (General Confederation of Italian Agriculture), AlberItalia Foundation, National Cluster Forestry wood

EVENT LANGUAGE: ITALIAN

The sustainable management of forest resources is crucial for biodiversity conservation and climate change mitigation. Forests and wood-based arboriculture play a fundamental environmental role by protecting soil, regulating the water cycle, and sequestering carbon. Forest owners, as custodians of forests and woodlands, are key actors in maintaining these often-complex balances, navigating between the European regulatory framework—such as the Nature Restoration Regulation (EU Reg. 2019/2115) and the Regulation on Deforestation and Forest Degradation (EU Reg. 2023/1115)—and the specific characteristics of national contexts. Nature restoration tools and sustainable management practices enhance forest resources and contribute to the provision of essential ecosystem services. International trade agreements, such as the one with Mercosur, require local supply chains to align with global environmental standards, without penalising national forest management systems. Finally, carbon farming in the forestry sector enables the quantification and incentivisation of carbon sequestration derived from poplar cultivation and reforestation. The integration of European policies, local practices, and the commitment of forest owners represents an effective model to combine sustainability, productivity, and environmental conservation.

Coordinators

Marco Marchetti, Ecomondo Scientific Technical Committee
Silvia Piconcelli, Confagricoltura

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8.

Thursday, 5 November, 14.00-18.00, Agorà Luciano Morselli, C1 Pav.

New strategies for contaminated site remediation: applied research between technological innovation and sustainability

Organized by: Ecomondo Scientific Technical Committee & Sapienza University, UNEM (Energy for Mobility Union), ISPRA (Italian Institute for Environmental Protection and Research), European Commission

EVENT LANGUAGE: ITALIAN

This session will be more specifically focused on remediation technologies and strategies, featuring case studies highlighting their actual effectiveness and limitations.

Coordinators

Donatella Giacometti, Ecomondo Scientific Technical Committee
Marco Petrangeli Papini, Ecomondo Scientific Technical Committee

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9.

Tuesday, 3 November, 10.00-13.00, Agorà Tiberio, East Hall

Water Resilience In and Beyond Europe: Euro-Mediterranean Cooperation, Innovation and Global Leadership

Organized by: Ecomondo Scientific Technical Committee

EVENT LANGUAGE: ENGLISH

[Call for Papers - Prioritized to EU-funded and international projects](#)

This workshop will explore the international dimension of water resilience, positioning Ecomondo as a key Euro-Mediterranean platform for dialogue, cooperation, and innovation. A strong focus will be placed on international research and innovation projects, highlighting their role in developing, testing, and scaling up sustainable water solutions across regions. In this context, the session will showcase EU-funded R&I projects and flagship initiatives such as the Global Gateway and the Union for the Mediterranean. The session will also look ahead to the UN Water Conference 2026, emphasizing the importance of water diplomacy in addressing shared challenges and fostering strategic partnerships. Particular attention will be given to strengthening the global competitiveness of EU water technologies, supporting industrial leadership, technology transfer, and market uptake through research-driven innovation. Innovative financing mechanisms, including nature credits and blended finance, will be discussed as tools to unlock investments and support the scaling of results emerging from research and innovation actions. The workshop will further reflect on the evolution of the European and Mediterranean Innovation Action, reinforcing collaboration between research institutions, industry, and public authorities. Overall, the session aims to position Ecomondo as a strategic hub connecting European and Mediterranean stakeholders, with a strong emphasis on international R&I collaboration, driving innovation, investment, and policy alignment in the global water agenda.

Coordinators

Francesco Fatone, Ecomondo Scientific Technical Committee

Evina Katsou, Ecomondo Scientific Technical Committee

Luca Lucentini, Ecomondo Scientific Technical Committee

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10.

Wednesday, 4 November, 10.00-17.30, Agorà Tiberio, East Hall

Urban Water Services in Transition: From Integrated Assessment to Deployable Solutions for Emerging Contaminants, Circular Resources and Climate-Neutral Utilities

Organized by: Ecomondo Scientific Technical Committee

EVENT LANGUAGE: ITALIAN

The integrated water service is entering a transformative era, shaped by the urgent need for systemic water resilience and the tightening of European and national mandates on micropollutants, resource recovery, and climate-neutrality. This full-day conference addresses the dual challenge of ensuring long-term drinking water, wastewater and sludge security while navigating the transition toward energy neutrality and net-zero emissions. To provide a comprehensive roadmap for this transition, the conference is structured into two complementary pillars: Technology Pathways & Deployable Solutions. A deep dive into innovative processes, smart operations, and digitalization across the drinking water, wastewater, and sludge sectors. This section emphasizes the recovery of material and energy resources, the removal of emerging contaminants and the reduction of carbon footprints. Holistic assessment and Risk-based management: A holistic examination of the tools required to ensure safety in a circular economy and One Health perspective. This includes advancing chemical and effect-based monitoring and deploying integrated decision-support tools. By linking advanced risk assessment with Water Safety Plans, this pillar ensures that the pursuit of circularity is underpinned by rigorous public health and environmental safeguards.

By bridging technical innovation with holistic assessment, this conference defines the "deployable solutions" necessary to build a water-resilient society in the face of escalating climate and chemical pressures.

Coordinators

Giorgio Bertanza, Ecomondo Scientific Technical Committee
Camilla Braguglia, Ecomondo Scientific Technical Committee
Francesco Fatone, Ecomondo Scientific Technical Committee
Tania Tellini, Ecomondo Scientific Technical Committee

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11.

Thursday, 5 November, 14.00-17.30, Agorà Tiberio, East Hall

Water Efficiency First: transforming Industry, Agriculture and Circular Water Use

Organized by: Ecomondo Scientific Technical Committee

EVENT LANGUAGE: ITALIAN

This workshop will focus on advancing a water-smart economy, placing water efficiency at the core of policy and investment decisions. The “Water Efficiency First” principle will be explored as a guiding approach to optimize resource use across sectors, reducing pressure on water systems while supporting economic growth. The session will highlight the potential of water reuse, both within agriculture and across industrial and urban applications, as a key lever for resilience. Particular attention will be given to the role of industry under the Industrial Emissions Directive (IED) and the development of pilot clusters for water efficiency. A broad range of water-intensive sectors will be addressed, including traditional industries as well as emerging strategic sectors such as data centres, hydrogen, batteries, and microchips. Technological solutions such as dry cooling systems and sustainable desalination will be discussed as part of a diversified water supply portfolio. Finally, the workshop will examine the need for large-scale infrastructure for water supply in agriculture, particularly at irrigation district level, to ensure long-term sustainability and competitiveness in a context of increasing water scarcity.

Coordinators

Francesco Fatone, Ecomondo Scientific Technical Committee

Attilio Toscano, Ecomondo Scientific Technical Committee

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12.

Friday, 6 November, 10.00-13.00, Agorà Tiberio, East Hall

Water Infrastructure of the Future: Smart Networks, Digitalisation and Security

Organized by: Ecomondo Scientific Technical Committee

EVENT LANGUAGE: ITALIAN

This workshop will explore the role of digitalisation and strategic investments in strengthening water resilience and system performance. A key focus will be on scaling up smart metering for all, enabling data-driven management, improved efficiency, and greater transparency across water services. The session will highlight the contribution of advanced EU initiatives such as the Digital Twin of the Ocean, Destination Earth, and the Copernicus Water Thematic Hub in supporting predictive modelling, monitoring, and decision-making. These tools are essential to enhance planning capacities and anticipate risks at multiple scales.

Particular attention will be given to leakage reduction through digital solutions, integrating real-time monitoring and asset management. The workshop will also address the growing importance of securing water infrastructure, in line with the CER Directive and NIS2, strengthening cybersecurity and resilience against emerging threats.

Finally, the role of early warning systems for droughts and floods will be discussed, showcasing how digital technologies can improve preparedness, risk management, and rapid response in the face of climate-related extremes.

Coordinators

Francesco Fatone, Ecomondo Scientific Technical Committee

Tania Tellini, Ecomondo Scientific Technical Committee