

Ecomondo 2023

08 / 09 / 10 / 11 NOVEMBER

Legend

	Agri-food, Forestry and Bio-based Industry
	Blue Economy
	Circular Economy Value Chains
	Environmental Monitoring & Control
	Financing, Education and Communication
	Hydrogeological Risks and Mitigation Measures
	Opening event
	Policies and Regulations
	Research and Innovation
	Sanitization Village
	States General of the Green Economy 2022
	Sustainable Remediation and Regeneration of Contaminated Sites
	Waste Management and Valorization
	Water Management and Valorization

TUESDAY 8 NOVEMBER

TUESDAY 8
NOVEMBER

09:30 -
17:30

Gemini Room C1
Pav.

**Hydrogeological
Risks and
Mitigation
Measures**
[Click here](#)

Innovative methods and technologies for landslide risk assessment and mitigation

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Italian Geotechnical Society

Landslide risk is currently a social priority connected to regeneration and sustainability items and also to environmental and economic aspects. Therefore, it's very important to adopt innovative construction methods and technologies for its assessment and mitigation compatible with the environment. In this context, the conference will be dedicated to this specific topic of innovation of methods and technologies, really crucial for the development of the territory and society and for the environment protection.

Session Chairs

Daniele Cazzuffi, CESI SpA - Milano

Nicola Moraci, Mediterranean University of Reggio Calabria

Programme

9.30-10.00 Registration

10.00-10.20 Introduction

Daniele Cazzuffi, CESI SpA - Milano

Nicola Moraci, Mediterranean University of Reggio Calabria

Session 1. Landslide risk evaluation and mitigation: analysis criteria

Chair: Nicola Moraci, Mediterranean University of Reggio Calabria

10.20-10.45 *The technical-regulatory framework for the management of soil and water over large areas*

Vera Corbelli, Southern Apennines River Basin District Authority

10.45-11.10 *Landslide susceptibility assessment and hazard at different scales: probabilistic and physically-based approaches*

Maria Clorinda Mandaglio, University of Salerno

11.10-11.35 *Landslide risk analysis: qualitative and quantitative approaches*

Settimio Ferlisi, University of Salerno

11.35-12.00 *Potential landslide risk mitigation strategies*

Giovanni Vacigiò, Studio Geotecnico Italiano, Milan

12.00-12.25 *New perspectives for landslide risk management*

Leonardo Cascini, University of Salerno

12.25-13.00 Discussion

Session 2. *Landslide risk assessment and mitigation: case studies*

Chair: Maria Clorinda Mandaglio, University of Salerno

14.15-14.40 *Debris flow susceptibility and hazard assessment: the case of Favazzina (RC)*

Mariantonietta Ciurleo and Nicola Moraci, Mediterranea University of Reggio Calabria

14.40-15.05 *Rockfall susceptibility and hazard assessment*

Maria Rita Migliazza, Polytechnic University of Turin

15.05-15.30 *Slow landslide risk assessment: applications at different scales*

Giovanni Gullà, Research institute for geo-hydrological protection of the Italian National Research Council (CNR - IRPI)

15.30-15.55 *Rockfall risk assessment*

Monica Barbero and Maria Lia Napoli, Polytechnic University of Turin

15.55-16.20 *Examples of innovative and sustainable measures for the slow landslide risk mitigation*

Piergiorgio Recalcati, Tenax SpA, Viganò - LC

16.20-16.45 *Implementation of mitigation measures in the national information systems*

Daniele Spizzichino, ISPRA (Italian Institute for Environmental Protection and Research)

16.45-17.15 Discussion

17.15-17.30 Closing remarks

Daniele Cazzuffi, CESI SpA - Milan

TUESDAY 8
NOVEMBER

09:30 -
17:30

Tiglio Room A6
Pav

**Waste
Management
and Valorization**
*Conference open to
Papers*
[Click here](#)

Waste as Resources: Innovative technologies for recycling and recovery

Language: English

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

CALL FOR PAPERS

The ambitious goals of the new Circular Economy Action Plan, as well as the strategic importance for Europe to limit its dependence from other world regions, in terms of material and energy resources, require the implementation of innovative recycling and recovery processes. This seminar is aimed at presenting technological innovations, which can improve the efficiency of secondary material valorization, increasing the circularity of materials and decreasing energy consumption. The presented activities could be related to different sectors (urban or industrial waste, residues, by-product) and various categories of materials (plastics, metals, WEEE, textiles, building and construction, food, etc.)

Session Chairs

Mauro Majone, STC Ecomondo, Università "La Sapienza" Roma

Fabrizio Passarini, STC Ecomondo, Università di Bologna

Marco Ricci, ISWA International

Programme

9.30-9.40 *Introduction by the Chairs and a short summary on the papers presented through posters*

9.40-10.30 Invited lectures

9.40-9.55 *Med4Waste Project: Mediterranean Dialogue for Waste Management Governance*

Lara Panzani, Project coordinator and Responsible Area Balcani, COSPE Onlus, Italy

9.55-10.10 *CIRCULAR BIOCARBON: a BBI-JU first-of-a-kind flagship biorefinery designed to valorise the Organic Fraction of Municipal Solid Waste (OFMSW) and Sewage Sludge (SS) into value-added products.* Natalia Alfaro Borjabad, URBASER, Spain

10.10-10.25 *Biomethane in mexican social economies of lakes with Eichhornia crassipes problems*

Santiago Gutiérrez Vargas, Polytechnic University of Guanajuato, México

10.30-13.00 Presentations selected from the call for papers

10.30-10.45 *Extending the life of computer equipment, reuse and carbon footprint*
Alejo Calatayud (Revertia, reusing and recycling, S.L.)

10.45-11.00 *Solvent-assisted extraction of gaseous and liquid impurities from polymer melts*

Kevin Moser, Irma Mikonsaari, Elke van de Walle (Fraunhofer ICT)

11.00-11.15 *Utilisation of waste tires as a feedstock for a new refinery aiming at recycled carbon*

Nazari, M., Marinez Aguilar, M. & Lavoie, JM (Université de Sherbrooke Québec, Canada)

11.15-11.30 *Plastic recycling and design*

Alessandro Garlandini (ilVespaio)

11.30-11.45 *Treating Red Gypsum by Innovative Technologies in Industrial Symbiosis Operation schemes*

Francesco Negri, Flavio Manenti (Politecnico di Milano, Italy), Enrica Bargiacchi (Consortium INSTM, Italy), Nelson Marmiroli, Elena Maestri, Sergio Miele (Università di Parma, Italy)

11.45-12.00 *Cold asphalt containing 100% reclaimed asphalt: a sustainable technology for cycle paths and maintenance interventions*

Paola Di Mascio, Nicola Fiore, (Università di Roma La Sapienza, Italy), Carlo Polidori (Associazione Italiana Professionisti Sicurezza Stradale), Loretta Venturini (Iterchimica S.p.A.)

12.00-12.15 *Experimental study on lightweight concrete with artificial aggregates containing industrial waste*

Ilenia Farina, Gianmarco Di Rienzo, Cinzia Salzano, Francesco Colangelo (Università degli Studi di Napoli Parthenope, Italy), Salvatore Puca (Consorzio ASI Napoli), Renato Olivares, Luigi Cossentino (ARPAC Dipartimento di Napoli, Italy)

12.15-12.30 *CISUFLO: Circular Sustainable FLOOR coverings*

Guy Buyle (Centexbel), Marco de la Feld, Antonietta Pizza, Madeira Scauri (ENCO srl), Ansgar Paschen (TFI), Elina Pohjalainen (VTT), Jan Jordan (RWTH ITA), Claudius Haerper (RWTH STO), Rajesh Mehta (TNO)

12.30-12.45 *AraBat: a green hydrometallurgical process for recycling spent lithium-ion batteries by reusing agri-food waste*

Raffaele Nacchiero, Leonardo Binetti, Gian Maria Gasperi, Giovanni Miccolis, Leonardo Renna, Vincenzo Scarano (AraBat srl, Foggia), Francesco Contillo, Paolo Marasco, Mauro Marone, Deborah Racca, Matteo Francavilla. (University of Foggia, Italy)

12.45-13.00 *Where the production cycle ends, a precious business begins*

Fabio Menicucci, B.T.T. ITALIA S.R.L.

13.00-14.00 Break

14.00-14.15 *Overcoming the challenges of fire safety in the waste and recycling industry*

Andrea Barbieri, Building Technologies, (BT-FIR/SAL4-EU) Bosch Security Systems S.p.A.

14.15-17.15 **Presentations selected from the call for papers**

14.15-14.30 *Digitalisation of Waste Management process: advantages of interoperability*

Stefano Lifone and Alessia Ferrara (Eni Rewind S.p.A.), Gabriele Sacchi (Riccoboni Holding)

14.30-14.45 *Does ecological transition start from schools? An educational approach to circular economy* Francesca Realini, Giuseppa Cucchiara, Angelo Gulotta (I.I.S. "L. Cobianchi", Verbania, Italy)

14.45-15.00 *Junker, the app for waste sorting and recycling*

Noemi De Santis (GIUNKO SRL)

15.00-15.15 *Demonstrating sustainable value creation from industrial CO2 by its thermophilic microbial conversion into acetone*

Carlo Alberto Oppici, Patrizia Circelli (Ciaotech srl - PNO Group, Rome)

15.15-15.30 *Assessing the environmental sustainability of crude glycerol purification by acid treatment*

Marco Tomatis, Harish Jeswani, Taha Attarbach, Vincenzo Spallina (University of Manchester, UK), Martin Kingsley (Argent Energy, Ellesmere Port, UK), Adisa Azapagic (University of Manchester, UK)

15.45-16.00 *BIO-Based pESTicides production for sustainable agriculture*

Anna Franciosini (Ciaotech srl - PNO Group, Rome)

16.00-16.15 *B-PLAS technology: Technical solution and industrial plant design*

Giorgia Pagliano, Andrea Bassi, Alisar Kiwan, Daniele Pirini, Eleonora Torricelli, Davide Collini (B-PLAS Sbrl Via Gessi, 16, 48022 Lugo, Italy), Cristian Torri (Università di Bologna, Ravenna, Italy) *B-PLAS*

16.15-16.30 *FARMŸNG: FIAGship demo of industrial scale production of nutrient Resources from Mealworm* Anna Franciosini, Patrizia Circelli (Ciaotech srl - PNO Group, Rome)

16.30-16.45 *Food industry by-products as a resource for biopolymers production: the USABLE Project approach*

Marianna Villano, Angela Marchetti, Mauro Majone (Sapienza University of Rome, Italy), Jesus Rodriguez, Vadim Scerbacov (Innoven Srl, Italy), Joana Fradinho, Maria Reis (UCIBIO- FCT-UNL, Portugal), Rakesh Nair (Bio Base Europe Pilot Plant, Belgium), David Bolzonella (University of Verona, Italy), (1), Josè Maria Lagaron (IATA-CSIC, Spain)

16.45-17.00 *Waste as Resources: Innovative technologies for recycling and recovery* Alessandro Reginato (Gruppo CAP)

17.00-17.15 *The production of biofuels for aircrafts and ships from waste and discards* Paola Zitella, Barbara La Licata, Alexia Boulanger, Giorgia Pellegrino (Environment Park SpA, Torino, Italy)

17.15-17.30 *Sustainable recycling of urban waste into valuable products without chemicals supplementation*

Barbara Tonanzi, Agata Gallipoli, Andrea Gianico, Camilla M. Braguglia (IRSA-CNR, Monterotondo - Rome, Italy), Giancarlo Cecchini, Alessandro Frugis, Marco Lazzazzara (ACEA ELABORI SpA, Rome, Italy)

17.15-17.30 **Discussion and Closure (by the chairs)**

Sessione Poster

WMV1-P1 Life cycle assessment apple processing waste valorisation in synthetic leather manufacturing / Michele Costantini, Jacopo Bacenetti (University of Milan, Milan, Italy), Carlo Ingrao (University of Bari, Bari, Italy), Umberto Bacenetti (Mabel Srl, Campi Bisenzio, Italia)

WMV1-P2 Characterization of flows, stocks, and recycling indicators of Mn, Ni, and graphite / Luca Ciacci, Elena Bernardi, Fabrizio Passarini (University of Bologna, Italy)

WMV1-P3 Glycidol: overview on main syntheses and conversions into value-added compounds / Prisco Prete, Carmine Capacchione, Antonio Proto, Raffaele Cucciniello (Università degli Studi di Salerno, Italy), Daniele Cespi, Fabrizio Passarini (Università degli Studi di Bologna, Italy)

WMV1-P4 The Date Marking campaign against food waste by Too Good To Go / Ilaria Ricotti (Too Good To Go Italy Srl)

WMV1-P5 AirPrex P-Recovery and Sludge Optimization / Rudolf Bogner, Davide Perduca (Perduca Ambiente srl, Mantova, Italy)

WMV1-P6 Circular Economy as a good answer to crises: the CESME project / Valeria Stacchini (Metropolitan City of Bologna, Italy)

WMV1-P7 Sustainably Improving and Scaling the Recovery of Recyclables with AI and Data / Gary Ashburner (AMP Robotics)

WMV1-P8 Bioconversion mediated by black soldier fly (*Hermetia illucens*): the HERMES project / E. Santangelo, M. Carnevale, F. Gallucci, C. Beni, F. Petrazzuolo, E. De Santis, A. De Iudicibus, A. Assirelli (CREA Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria), S. Amone, M. De Mei, F. Lecce (ENEA, Centro Ricerche Casaccia)

WMV1-P9 Intelligent waste infra management as a part of Corporate Carbon Responsibility / Johanna Alakerttula, Sanna Taskila, Mikko Ahokas (Macon Oy, Finland), Outi Laatikainen (KAMK University of Applied Sciences, Finland)

WMV1-P10 The transformation of waste in biological fertilizer: circular economy for private companies and public administration / Tommaso Pardi, Violante Mori, Luca Mori (BioXplosion srl, Pisa, Italy)

WMV1-P11 LCA of Concrete Made with Recycled Peritoneal Dialysis Plastic as Aggregate Material / Benedetta Copertaro, Gianluca Magrini (Newster System S.r.l., Cerasolo di Coriano (RN) – Italy), Rebecca Craine, Evangeline Buckmaster, Jakob Winkler, Vanessa O'Brien, Thomas Pickard, Olivia Flower, Louise Bardwell (The Australian National University- Canberra), Ryan Pike (Waste Group, Australia)

WMV1-P12 Analysis of citizens behaviour in the processes of separate collection / Mangiagli Sebastiano (Istituto Tecnico Industriale "E. Fermi", Siracusa, Italy)

WMV1-P13 Sustainable fashion industry: barriers and drivers for the transition towards circular economy / Simona Fortunati (Università degli Studi della Tuscia di Viterbo, Italy)

WMV1-P14 Preparation of Underfloor heating panels with poly laminate sheets and caps from recycled packaging / Buonocore Gregorio, Luca Pierantonio (Università della Calabria, Italy)

WMV1-P15 GLycerol to Aviation and Marine prOducts with sUstainable Recycling / Manuela Guiducci (Ciaotech srl, PNO Group, Rome, Italy)

WMV1-P16 Application of hyperspectral imaging to the recycling of different solid waste streams / Giuseppe Bonifazi, Giuseppe Capobianco, Paola Cucuzza, Riccardo Gasbarrone, Ludovica Fiore, Roberta Palmieri, Silvia Serranti, Oriana Trotta (Sapienza University of Rome, Italy)

WMV1-P17 Imaging iperspettrale per il riconoscimento di plastiche derivanti da attività agricole nei terreni / Giuseppe Bonifazi, Eleuterio Francesconi, Riccardo Gasbarrone, Silvia Serranti (La Sapienza Università di Roma, Italia).

WMV1-P18 Recycling of rare earth elements from electric motors of the e-mobility / Gianluca Torta, Fabrizio Passarini, Luca Ciacci, Ivano Vassura (University of Bologna - Alma Mater Studiorum, Italy).

WMV1-P19 Construction and plastic wastes as resources for new modular bike paths / Marc Martín, Luis Granda (LEITAT Technological Center, Terrassa, Spain), Grégory Coué, Carolina Carbó (Kompuestos, Palau Solità i Plegamans, Spain)

WMV1-P20 Feasibility study of a circular scenario for personal protective equipment waste / Marco Marconi (Università degli Studi della Tuscia), Daniele Landi (Università degli Studi di Bergamo), Edoardo Bocci (Università degli Studi eCampus)

WMV1-P21 Co-hydrothermal carbonization of stabilised organic fraction and landfill leachate for activated carbon production / Alessandro Cardarelli, Marco Barbanera (University of Tuscia, Viterbo, Italy), Pierpaolo Lombardi (Ecologia Viterbo srl, Roma, Italy), Andrea Nicolini (CIRIAF, University of Perugia, Italy)

WMV1-P22 New recyclability solutions by MTB / Esthel Osso & Guilhem Grimaud (MTB ECO-INNOVATION Team)

WMV1-P23 REMADYL: Removal of Legacy Substances from polyvinylchloride (PVC) via a continuous and sustainable extrusion process / Guy Buyle (Centexbel), Marco de la Feld, Giuseppe Salvio, Madeira Scauri (ENCO srl), Johan Pauwels (Deceuninck), Jan Diemert (Fraunhofer-Institut für Chemische Technologie), Marta Estrellés Luna (AIMPLAS)

WMV1-P24 Supercritical water precipitation for metal recovery and recycling: an advanced solution to improve the supply chain sustainability in the surface treatment industry / Carlotta Micale, Dario Mosconi, Riccardo Momoli, Marco Bersani (Circular Materials s.r.l.)

WMV1-P25 Supercritical water precipitation for metal recycling and cyanides abatement from wastewaters: a case study / Carlotta Micale, Dario Mosconi, Riccardo Momoli, Marco Bersani (Circular Materials s.r.l.)

WMV1-P26 Supercritical water precipitation for precious metal recycling from galvanic wastewaters: case studies for Au, Pt and Ru / Carlotta Micale, Dario Mosconi, Riccardo Momoli, Marco Bersani (Circular Materials s.r.l.)

WMV1-P27 e-hyrec® and e-lorec® devices for selective recovery of LNAPL and DNAPL / Camilla Lanari, Guido Bonfedi, Federico Villani (Eni Rewind, San Donato M.se, MI), Francesca Rubertelli, Andrea Chiodini, Stefano Loda (Eni S.p.A. Novara, Italy)

WMV1-P28 Microbial Cell Factories for hemp lignocellulosic biomass valorization / Stefano Raimondi, Raffaella Ranieri, Celeste Fiorani, Maddalena Rossi, Alberto Amaretti (University of Modena and Reggio Emilia, Modena, Italy), Simone Cusimano, Gianluca Ottolina (National Research Council, Milan, Italy)

WMV1-P29 CarboxyLCA: Assisting the decision-making in waste valorization by computer-aided design tool / Mateo Saavedra del Oso, Miguel Mauricio-Iglesias, Almudena Hospido (Universidade de Santiago de Compostela, Spain).

WMV1-P30 Management coordination and recovery strategies for sludge and urban waste (Ecoval project) / Miguel Mauricio, Marta Carballa (University of Santiago de Compostela), Anton Taboada-Santos (Cetaqua Galicia, Water Technology Centre), Ángela Muñiz (Fundación Empresa Universidad de Galicia).

WMV1-P31 Introducing TERRE: a strategic project driving circular bioeconomy transition in agrosystems / A. Macagnano (CNR), M. Mari (CNR), G. Santagata (CNR), P. Cerruti (CNR), A. Maienza (CNR), B. Matturro (CNR), Giuseppe Scarascia-Mugnozza (University of Tuscia), Fabrizio De Cesare (University of Tuscia)

WMV1-P32 Waste-to-Chemical processes as alternatives to the energy valorisation of plastic waste / F. Viganò, A. Conversano, D. Di Bona, D. Sogni, S. Consonni (Politecnico di Milano, Milan, Italy; LEAP Scarl, Piacenza, Italy)

WMV1-P33 Risk and opportunity analysis of a waste (EWC 030105) to energy plant / Massimiliano Londei (Sinergia EPC srl), Federico Ferrini (Techfem S.p.a.), Gianluca Pallotta (LUBE S.r.l.), Daniele Vanzini (MIT Ambiente S.r.l.)

WMV1-P34 Innovative food supply chains and new business models for slaughterhouse waste: BS Green case study / Giuseppe Pulina (Università di Sassari, Italy), Andrea Massidda (BS GREEN), Simone Bonizzardi (ANAERGIA)

WMV1-P35 VINUM. Circular economy transition on wine making: valorization of wastes / Sauro Vittori, Doaa Abuelenein, Germana Borsetta, Giovanni Caprioli, Ahmed Mustafa (UNICAM), Enrico Ciarimboli (Mayor of Morro D'Alba Municipality)

WMV1-P36 Zero Waste Cities - Brazilian Zero Waste Model / Rodrigo Sabatini, Taina Wanderley (Istituto Lixo Zero Brasil)

WMV1-P37 Hydrogen and Methane processing plastic, tires waste by innovative LASER PYROLYSIS / Paolo Peri (Kima Eko Engineering), Davide Russo, Christian Spreafico (University of Bergamo, Italy), Riccardo Degl'Innocenti (University of Lancaster, UK)

WMV1-P38 Using Computer Vision and AI to automate the identification of Contaminated material in Recycling collections / Ken Tierney (AMCS Group, Limerick, Ireland).

WMV1-P39 The industrial green revolution in biomass extraction and downstream / Giorgio Capaldi, Lorenzo Gallina, Arianna Binello, Luisa Boffa, Giancarlo Cravotto (Università degli Studi di Torino, Italy).

WMV1-P40 Recycling of plastic materials in road construction industry / Daniela Laura Buruiana, Viorica Ghisman, Gabriel-Bogdan Carp ("Dunarea de Jos" University of Galati, Romania)

WMV1-P41 Re-use of slag waste in the agricultural sector / Nicoleta Bogatu, Georgiana Ghisman, Cristian-Dragos Obreja, Viorica Ghisman, Daniela Laura Buruiana (Dunarea de Jos University of Galati, Romania)

WMV1-P42 Tanning industry and circular bioeconomy: energy recovery from circular sludges / Daniela Caracciolo (Stazione sperimentale per l'industria delle pelli e delle materie concianti srl, Pozzuoli, Italy), Massimo Urciuolo, Renata Migliaccio, Giovanna Ruoppolo (CNR, Napoli, Italy), Francesca Di Lauro, Marco Balsamo, Fabio Montagnaro (Università degli studi di Napoli Federico II, Italy).

WMV1-P43 PCR from Domestic Waste Collection: the Italian model as leading reference / Massimo Veronelli (Sirmax spa, Cittadella - PD, Italy)

WMV1-P44 Technology to the rescue for a smart and sustainable approach to waste management / Leon Hayes (Taoglas Waste Technologies, Glasnevin, Ireland)

WMV1-P45 Fundamental measures for an exactly circular economy / Roberto Guizzardi, Marcela Naranjo Girardi (Tecnoservizi Ambientali Srl, Bergamo, Italy)

WMV1-P46 Circular Economy for Bio-Mass Valorisation: Two Successful Case Studies / Valentina Beghetto, Vanessa Gatto, Riccardo Samiolo, Manuela Facchin, Silvia Conca, Noemi Bardella (Crossing Srl, Treviso, Italy)

WMV1-P47 Utilisation of Ground Coffee Waste as Furniture Material / Gülşah BALAMUT ARSLAN, Merve ASLAN KADIZ (Kastamonu Entegre Ağaç Sanayi & Ticaret A.Ş., Istanbul, Turkey)

TUESDAY 8
NOVEMBER

10:00 -
13:15

Global Water Expo
Room D1 pav.

**Water
Management
and Valorization**
[Click here](#)

Digitalization and cyber-physical systems for water-smart cities and industries: demos and showcase

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo Technical-Scientific Committee, DigitalWater2020 Synergy Group and ICT4WATER, Water Europe, European Commission, Università Politecnica delle Marche

Digital and cyber-physical systems in urban and industrial water cycles are more and more available at commercial level, while innovations have been developed and validated in recent EU-Horizon2020 projects which have reached their final stage. In this context, ICT4WATER is a large cluster of EU projects to boost digital innovation in water sector, while DigitalWater2020 Synergy Group (DW2020) is a group of n.5 Horizon2020 projects that has closely worked on four thematic tasks forces: FIWARE and ontology, Sensors and demonstration, Business models and Communication. In addition, digital twins and cyber-physical systems have been proposed for urban-industrial symbiosis and water-smart industries. After presenting the final results of DW2020, the workshop will provide demos of relevant solutions and serve as an interactive session to support market uptake.

Session chairs

Arnoldas Millukas, Head of Unit, REA.B3 Biodiversity, Circular Economy and Environment - Research Executive Agency, European Commission

Nicolas Caradot, Berlin Competence Centre for Water - Coordinator of Digital Water City

Francesco Fatone, Technical Scientific Committee Ecomondo and Università Politecnica delle Marche

Programme

10.00-10.10 Introduction by the Chairs

10.10-10.25 *Digital Water in Horizon2020 and Horizon Europe*

Arnoldas MILUKAS, Head of Unit, REA.B3 Biodiversity, Circular Economy and Environment - Research Executive Agency, European Commission

10.25-10.40 *ICT4WATER and Digital Water 2020 synergy group: current results after years of cluster implementation*

Lydia Vamvakieridou-Lyroudia, KWR (Netherlands)

10.40-11.00 *Summary of policy recommendation from 5 digital water projects DWC, SCOREWATER, AQUA3S, FIWARE4WATER, NAIADES*

Benedict Bueb, Ecologic (Germany)

11.00-12.00 Demo and showcase of digital innovations (co-chair Nicolas Caradot):

Space technology and diagnostic modeling for water quality monitoring and forecasting services: demonstration in four international freshwater reservoirs

Mariano Bresciani, CNR (Italy) and Maria Dessena, ENAS (Italy)

The role of machine learning in sewer rehabilitation planning in Berlin

Nico Caradot, KWB (Germany)

South West Water Smart Metering Trial in the UK

Gareth Lewis, UNEXE (UK)

Integrated system for water management and flood risk management: an application in the Oriental Alps River District (Area of Trieste and Isonzo River Plain)

Michele Ferri, AAWA (Italy)

12.00-12.15 *Digital solutions for urban-industrial symbiosis in H2020 ULTIMATE project*

Aitor Corchero, EURECAT (Spain)

12.15-12.30 *Digital twin and cyber-physical framework in water smart industries in H2020 AQUASPICE*

Georgios Arampatzis, Technical University of Crete (Greece)

12.30-13.00 Panel discussion:

Pietro Oliva, GRUNDFOS

Davide Ravezzani, XYLEM

Paolo Lanza, Acquedotto Pugliese

TUESDAY 8
NOVEMBER

10:00 -
13:30

Environmental
Monitoring &
Control Room
pad. D7

**Environmental
Monitoring &
Control**

*Conference open to
Papers*

[Click here](#)

Odor emissions: from abatement technologies to new control strategies

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & ISPRA, Italian Chemical Society - Division of Environmental and Cultural Heritage Chemistry

CALL FOR PAPERS

The Ecomondo Odor Emissions conference (at its twelfth 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, Institute for Protection and Environmental Research

Gaetano Settimo, National Institute of Health

Programme

10.00 Introduction by the Chairs and a short summary on the papers presented through posters

10.20-10.50 *Update on national and international technical standards*
Domenico Cipriano, RSE SpA (energy sector research organization)

10.50-12.40 **Speeches from the Call for Papers**

10.50-11.00 *Monitoraggio odori in continuo e ottimizzazione di processo grazie alla modellazione CFD*
Davide Scaglione, Gruppo CAP

11.00-11.10 *Implementazione di un modello di micromixing in un codice di dispersione a particelle*
Gianni Tinarelli, Daniela Barbero, ARIANET S.r.l. - Roberto Sozzi

11.10-11.20 *SIFT-MS on site: l'analizzatore che respira*
Corrado Corradi, Giulio De Prosperis, Alessandro Frugis, Giancarlo Cecchini, Alessandro Filippi, Acea S.p.A.

11.20-11.30 *Analisi chimica di composti odoriferi mediante TD-GC-MS/FID/PFPD*
Elisa Polvara, Marzio Invernizzi, Selena Sironi, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta" del Politecnico di Milano - Daniele Morisini, SRA Instruments S.p.A.

11.30-11.40 *Approccio sperimentale integrato per lo screening di eventi odoriferi in poli industriali*
Antonio Mazzone, A.R.P.A. Puglia; F. Serini, Antonio Fornaro, Labservice Analytica Srl; Davide Vignola, Pollution Analytical Equipment

11.40-11.50 *Sviluppo di un sistema di monitoraggio in continuo per lo studio dell'efficienza di un impianto di trattamento emissioni odorifere*
Federico Cangialosi, Edoardo Bruno - Tecnologia e Ambiente srl; Antonio Fornaro, Francesco Serini - Labservice Analytica srl

11.50-12.00 *Electronic Nose for real-time monitoring of odour emissions at a Wastewater Treatment Plant* Stefano Prudenza, Alessandra Panzitta, Carmen Bax, Laura Capelli, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta" del Politecnico di Milano

12.00-12.10 *Challenges in characterization of odour emissions from wood chip storage*
Francesca Tagliaferri, Marzio Invernizzi, Selena Sironi, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta" del Politecnico di Milano

12.10-12.20 *Progetto SAVAGER Sorveglianza AVanzata GEstione Rifiuti*
Nadia Fibbiani, Dipartimento di Como Varese - ARPA Lombardia

12.20-12.30 *Controlli sulla gestione dei rifiuti transfrontalieri sul territorio*
ARPA Lombardia, Roberta Meroni, ARPA Lombardia; Marco Ciccarelli, ARPA Campania

12.30-12.40 *A Sustainability-Centric Tool for Schools' Carbon Footprint Assessment: CO2 School*

Tommaso Bosi, Dipartimento di Ingegneria dell'Università degli Studi Roma Tre - Paolo Di Nardo, Dipartimento di Medicina Università di Roma Tor Vergata

12.30-12.40 *A Sustainability-Centric Tool for Schools' Carbon Footprint Assessment: CO2 School*

Tommaso Bosi, Dipartimento di Ingegneria dell'Università degli Studi Roma Tre - Paolo Di Nardo, Dipartimento di Medicina Università di Roma Tor Vergata

12.40-12.50 *Holistic Odour Management*

Lucrezia de Gennaro, Lenviros Srl - Christoph Mannebeck, Olfasense GmbH

12.50-13.00 *The NOSE project in Sicily*

Anna Abita*, Gino Beringheli*, Paolo Bonasoni**, Vincenzo Infantino*, Alfredo Lucarelli*, Salvatore Sodano***; * ARPA Sicilia, ** CNR-ISAC, *** Tecnopolo PROAMBIENTE CNR Bologna

13.00-13.20 Poster Session

13.20-13.30 Discussion and conclusions

Poster Session

EMC1-1 *Comparison of aerated bins and sealed containers; evaporation effect and odour control in private household biowaste collection*

Hanna Virpiranta, Mikko Ahokas (Macon Oy, Finland), Outi Laatikainen (KAMK University of Applied Sciences, Finland)

EMC1-2 *Laboratorio di monitoraggio ambientale basato su drone*

Gianluca Stani SRA Instruments

EMC1-3 *Stazione di monitoraggio in continuo delle emissioni degli odori e della qualità dell'aria*

Gianluca Stani SRA Instruments

EMC1-4 *"Acea Nose" - Tecnologia IoT multi-parametrica per il monitoraggio ambientale*

Gabriele Varani, Acea S.p.a.

TUESDAY 8
NOVEMBER

10:30 -
11:15

Innovation Arena -
South Hall

Opening event
[Click here](#)

Ecomondo and Key Energy 2022: Opening Ceremony ENGLISH LANGUAGE SESSION

Language: English

Inauguration event of the **25th edition of Ecomondo** - *International fair and the reference event in Europe for the ecological transition and the new models of circular and regenerative economy* and of the **15th edition of Key Energy** - *International Fair for renewable energies, storage systems, infrastructures for sustainable mobility and digitization of cities.*

TUESDAY 8
NOVEMBER

10:30 -
11:15

Innovation Arena -
South Hall

Opening event
[Click here](#)

Ecomondo and Key Energy 2022: Opening Ceremony

Language: Italian
Simultaneous translation: English

Inauguration event of the **25th edition of Ecomondo** - *International fair and the reference event in Europe for the ecological transition and the new models of circular and regenerative economy* and of the **15th edition of Key Energy** - *International Fair for renewable energies, storage systems, infrastructures for sustainable mobility and digitization of cities.*

TUESDAY 8
NOVEMBER

11:15 -
13:00

Neri Room South
Hall

[Click here](#)

Language: Italian
Simultaneous translation: English

TUESDAY 8
NOVEMBER

14:00 -
16:15

**Agri-food,
Forestry and Bio-
based Industry**
[Click here](#)

NRRP and agriculture 4.0: synergies between supply chains for sustainable development

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Consorzio Italiano Biogas (CIB)

Mission 2 of the NRRP, dedicated to "Green Revolution and Ecological Transition", establishes interventions for sustainable agriculture and circular economy. These interventions are extremely important for the agricultural sector which will progress not only technologically but it will be able to offer its concrete contribution protecting soils, the environment and food production.

Session Chairs

P. Gattoni, President of Consorzio Italiano Biogas (CIB)

Programme

Session 1 – NRRP: the role of technologies for the agroecological transition

14.00-14.10 *Introduction*

P. Gattoni, President of Consorzio Italiano Biogas (CIB)

14.15-14.30 *Technologies financed under the NRRP*

L. Bianchi, Vice President of ISMEA (TBC)

14.30-14.45 *Research and innovation as drivers for sustainable agriculture*

S. Vaccari, Director General of CREA (Council for Agricultural Research and Economics)

14.45 -15.00 A story of innovative agriculture
G. Giambi, Soc. Coop. Agricola Agrisfera

Sessione 2 – The development prospects to give concrete shape to the NRRP actions

15.05-16.00 Round table
N. Gherardi, Giunta Confagricoltura
C. Piccinini, Presidente FedagriPesca
M. Uniformi, Segretario Conaf
A. Tassinari, Presidente UNCAI
A. Gentili, Responsabile Agricoltura Legambiente Nazionale

17.00-17.15 A story of innovative agriculture: CIB partner (TBD)

17.15-17.30 Closing
Representative of Italian Ministry of Agricultural, Food and Forestry Policy (TBC)

TUESDAY 8
NOVEMBER
14:00 -
16:30

Ravezzi 1 Room
South Hall

Research and
Innovation
[Click here](#)

Cluster meeting: Horizon 2020 and Horizon Europe projects contributing to the EU Plastics Strategy

Language: English
Simultaneous translation: Italian

Organized by: European Research Executive Agency (REA)

On 16 January 2018, the EU adopted its European Strategy for Plastics in a Circular Economy. The strategy is part of the EU Action Plan for Circular Economy, and builds on existing measures to reduce plastic waste. The EU Plastics Strategy is a key element of Europe's transition towards a carbon neutral and circular economy as set out in the EU Green Deal and Research&Innovation actions are paramount to ensure such transition. Since 2018, Horizon 2020 and Horizon Europe (EU's research and innovation framework programmes) have funded projects which develop innovative solutions to boost the circular economy for plastics. The meeting wants to showcase the contribution of Horizon 2020 and Horizon Europe projects to the EU Plastics Strategy and therefore to the EU Green Deal. The meeting will see the participation of around 20 ongoing Horizon 2020 and Horizon Europe projects contributing to the EU Plastics Strategy and EU Action Plan for Circular Economy from different angles: from improving the sorting separation and recycling of multi-layers materials, to removing hazardous substances in plastics, from better understanding and monitoring the impact of plastics in the environment (including pollution) to tackling specific plastics challenges in agriculture.

The Horizon 2020 projects involved in the meeting have already taken part in other clustering events, where some cluster representatives / ambassadors have been appointed. This cluster meeting wants to be also a follow-up of previous clustering meetings, with the additional contribution of recently-signed Horizon Europe projects. Relevant project activities and solutions that have the potential to contribute to EU policy developments in the area of circular and sustainable plastics will be presented and further clustering opportunities will be identified.

Session chairs

REA representative (TBC)

Horizon 2020 and Horizon Europe cluster representatives (TBC)

Programme

14.00-14.05 Opening

Arnoldas Milukas, Head of Unit, REA.B3 Biodiversity, Circular Economy and Environment

14.05-14.15 *The Revision of the Packaging Legislation and the EU Plastic Strategy*

Mattia Pellegrini, Head of Unit, ENV.B3 From Waste To Resources

14.15-14.30 *Overview of EU's funding opportunities and relevant initiatives in support of the EU's plastics strategy*

Stefania Rocca, Project Adviser, REA.B3

14.30-14.40 *Green Innovation with EIC Accelerator*

Speaker from EISMEA (TBC)

14.40-16.00 *Brief presentations of H2020 and HE projects, with a special focus on their contribution to the EU Plastics Strategy and opportunities for projects clustering*

Presentations by project representatives

Moderator: Giulio Pattanaro, Research Programme Administrator, REA.B3

16.00-16.10 *Addressing challenges to unlock bio-plastics potential: the contribution of EU-funded projects*

Susanna Albertini, FVA New Media Research, European Bioeconomy Network, Glaukos

16.10-16.25 Q&As, discussions and next steps for clustering

Moderators: Giulio Pattanaro and Stefania Rocca, REA.B3

16.25-16.30 Closing

Arnoldas MILUKAS, REA.B3

TUESDAY 8
NOVEMBER

14:00 -
17:00

Workshop Room
B1 pav.

**Circular
Economy Value
Chains**

[Click here](#)

Advanced experiences on circular economy in the WEEE sector

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & ERION

Knowledge of the Circular economy principles needs to be spread to the society but must be communicated not as a theory but as something reachable and concrete. Industrial examples will be provided using as reference sector the Electrical and Electronic Equipment sector. Best practice already in place will be showcased by industrial actors from all the nodes of the chain: from design and innovative business models to social aspects in waste management.

Session Chair

Giorgio Arienti, Erion WEEE

Programme

14.00 Introduction by the Chairs

Giorgio Arienti, Erion WEEE

14.20-15.00 *Sustainability from the point of view of EEE producers*

Diego Cavallari, ACER Italy S.r.l.

Roberta Bernasconi, Whirlpool Italia S.r.l.

15.00-15.20 *Preparation for reuse of large appliances*

Manuel Odasso, RI-GENERATION S.b.a r.l.

15.20-15.40 *From pre-treatment to recycling innovative activities*

Giuseppe Piardi, Stena Recycling S.r.l.

15.40-16.00 *Pay-per-use in the household EEE sector*

Roberto Reale, REDO SGR S.p.a. Società Benefit

Nicola De Cesare, COMPASS RENT S.r.l.

16.00-16.20 *Not only circular "economy" but also social aspeSTC*

Danilo Vismara, LABORAE S.r.l.

16.20-17.00 Discussion and Closure by the chair with the participation of

Mattia Pellegrini, Head of Unit Circular Economy at the European Commission

TUESDAY 8
NOVEMBER

14:00 -
17:30

Environmental
Monitoring &
Control Room
pad. D7

**Environmental
Monitoring &
Control**

*Conference open to
Papers*

[Click here](#)

Indoor air quality: sources of emissions, air changes, energy efficiency and the new control and monitoring technologies

Language: Italian

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

CALL FOR PAPERS

The conference aims to provide a picture of indoor air quality in the various closed environments, which have been at the center of attention in the world because of the role played in the recent pandemic shock, considering the challenge opened by the entire sector in the field of the design linked to new lifestyles, materials, ventilation, energy efficiency and indoor air monitoring technologies. The space dedicated to the discussion will represent an important moment for an exchange on the different approaches in relation to the challenges that will have to be faced.

Session Chairs

Gaetano Settimo, National Institute of Health

Gianluigi de Gennaro, University of Bari "Aldo Moro"

Programme

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

14.20-14.40 *TBD*

Luca Fontana, World Health Organization (TBC)

14.40-15.00 *Indoor air quality: where are we?*

Gaetano Settimo, National Institute of Health

15.00-15.15 *The planning of a new school centered on students*

Mauro di Molfetta, Municipality of Statte

15.15-15.30 *Indoor air quality in school environments: SIAQ (School Indoor Air Quality) project.*

Bosio * C., Cecere * E., Del Din * A., Faustin * G., Franzoi * M., Frascetta * L., Frasnelli * D., Giacomini * S., Giovannini * S., Lazzarotto * F., Lazzeri * C., Manca * D., Mazzarelli * M., Tomio * T., Volcan * D., Modonese * D., Pellizzari * V., Burzacca * P., Donega ** M., Tirler ** W. * Galileo Galilei Technical Technological Institute, Bolzano; ** Eco-Research, Bolzano

15.30-17.15 **Speeches from Call for Papers**

15.30-15.45 *CO2 Lab: un percorso didattico STEM per il monitoraggio della CO2 in ambienti scolastici*

Francesco Suriano¹, Francesco Riminucci¹, Francesco Marucci¹, Enrico Cozzani¹, Stefano Zampolli², Marica Canino²; ¹Consorzio Proambiente S.c.r.l.-Tecnopolo Bologna CNR, Bologna, ²Istituto per la Microelettronica e Microsistemi IMM-CNR, Bologna

15.45-16.00 *Organic contaminants in the Italian Universities indoor environments*

Paola Romagnoli, Catia Balducci, Mattia Perilli, Marina Cerasa, Angelo Cecinato, National Research Council of Italy-Institute of Atmospheric Pollution Research, Montelibretti (RM)

16.00-16.15 *Effetto dei fattori socio-demografici e ambientali sulle dinamiche di diffusione dell'infezione da SARS-CoV-2: il modello endemico-epidemico*

Katiuscia Di Biagio, Marco Baldini, Servizio Epidemiologia Ambientale, ARPA Marche; Jacopo Dolcini, Dipartimento di Scienze Biomediche e Sanità Pubblica, Università Politecnica delle Marche

16.15-16.30 *Inquinamento indoor: l'impatto delle diverse fonti energetiche sulla salute*

Simone Cascioli, Liquigas Innovhub Stazioni Sperimentali per l'Industria srl, Milano; Gabriele Migliavacca, Responsabile Laboratorio Emissioni - Innovhub Stazioni Sperimentali per l'Industria S.r.l.

16.30-16.45 *Indoor Air Quality e Smart Bulding: sinergie e opportunità*

Andrea Lanna, Lorena Nappa-OVER, Giuseppe Santoro-CBRE, Luca Alberto Piterà-AICARR, Michele Rossi, Nicolas Fernando Marrugo Cardenas-VEOLIA, Umberto Paracchini-KIEBACK&PETER

16.45-17.00 *Garibaldi Complex: efficienza energetica e qualità dell'aria per un modello energetico innovativo*

Michele Mariella, Giuseppe Sperduto, Alessio Bosi, Mellacqua, Maire Tecnimont, Antonella Santoro, NUVAP

17.00-17.15 *Il radon negli ambienti di vita confinati e gli interventi di efficientamento energetico degli edifici*

Silva Brini¹, Elisabetta De Maio¹, Francesca De Maio¹, Giuliana Giardi¹, Arianna Lepore¹, Daniela Santonico¹, Giuditta Graziano², 1ISPRa Istituto Superiore Protezione e Ricerca Ambientale; 2MiTE Ministero della Transizione Ecologica.

17.15-17.30 *Reference practice for indoor air quality certification*

Francesco Santi, Busico Davide, Gruppo Tecnico Specialistico Indoor Air Quality AIAS

17.30-17.45 *Who knows about it, indoor pollution?*

Giulia Dallagiovanna, Caporedattrice OhgaGiulia Dallagiovanna, Ohga editor-in-chief

17.45-18.00 Discussion and Closure (by the chairs)

Poster session

EMC2-1 *An indoor case study: analysis of fragrances in a house during cleaning operations and under normal conditions*

Serena Santoro¹, Marina Cerasa¹, Paola Romagnoli¹, Massimiliano Frattoni¹, Paolo Ceci², Catia Balducci¹, 1National Research Council of Italy-Institute of Atmospheric Pollution Research, Montelibretti (RM); 2National Research Council of Italy-Institute of Atmospheric Pollution Research - secondary office c/o Ministry of Ecological Transition, Roma.

EMC2-2 *Seasonal trend of PM_{2.5} and PAHs in a private home, and effects of 2020 CoViD-19 lockdown*

Catia Balducci¹, Cecinato Angelo¹, Paola Romagnoli¹, Mattia Perilli¹, Serena Santoro¹, Marina Cerasa¹, Paolo Ceci², 1National Research Council of Italy-Institute of Atmospheric Pollution Research, Montelibretti (RM); 2National Research Council of Italy-Institute of Atmospheric Pollution Research - secondary office c/o Ministry of Ecological Transition, Roma.

EMC2-3 *Analisi in continuo sino a 12 parametri e valutazione della trasmissibilità dei virus*

Gianluca Stani, SRA Instruments, Cernusco sul Naviglio (MI).

EMC2-4 *Analysis of the relationship between environmental fine PM concentrations and indoor air quality*

Andrea Lanna, Giuseppe Molinaro, Lorena Nappa, Alessandro Peruzzi, Gian Marco Sabatucci, OVER

EMC2-5 *Dall'agricoltura un isolante per l'edilizia*

Giuseppe Marconi e Leonardo Amadio, SAVE AS Srl, Maltignano AP.

EMC2-6 *Una proposta integrata di miglioramento e di monitoraggio della IAQ*

Gian Luca Guerrini, Raffaella Moro, REair Srl, Milano, Angelo del Favero, Università La Sapienza di Roma e Università Cattolica di Roma.

EMC2-7 *Synthesis of Bio-Based Wood Adhesive*

Salise Oktay, Nilgün Kizilcan, Başak Bengü S.O. Istanbul Technical University, Turkey.

EMC2-8 *Utilisation of Ground Coffee Waste as Furniture Material*

Gülşah Balamut Arslan Kastamonu Entegre Ağaç Sanayi & Ticaret A.Ş., Merve Aslan Kadiz, Department of Research and Development, 34906, Istanbul, Turkey

EMC2-9 *Informazioni smart sulla qualità dell'aria: pregi e difetti delle informazioni che circolano nel mondo*

Alessandra Fino, Francesca Vichi, Cristina Leonardi - CNR-IIA, National Research Council - Institute of Atmospheric Pollution Research Research

TUESDAY 8
NOVEMBER

14:00 -

17:30

Reclaim Expo
Room C1 Pav.

Blue Economy
[Click here](#)

Regeneration of coastal areas and ports and adaptation to climate change

Language: Italian

Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee & ISPRA, GNRAC, Legambiente, WaterfrontLab

The funding lines of the PNRR, Italian National Plan for Relaunch and Resilience, dedicated to the regeneration of urban areas and ports, in the view of the energy and ecological transition, represents an extraordinary opportunity also for the redevelopment and reorganization of coastal areas in terms of sustainability, resilience and adaptation to the effects of climate change such as sea level rise, coastal erosion and marine flooding. The redevelopment of coastal urban areas, waterfronts, real estate and infrastructure, the protection, enhancement and redevelopment of the natural heritage, can contribute to the overall regeneration and safety of coastal systems through integrated, "multi-objective" projects. Reducing vulnerability and exposure to coastal risks and ensuring sustainable development together, represent the indispensable rails for the policies of relaunch of coastal-maritime tourism, quality and safety of living and doing business in coastal areas, looking beyond the difficult crisis period we are coming from. To launch virtuous projects in this sense, synergies must be created between administrators, managing bodies, economic operators, and stakeholders from the various areas of interest. The conference intends to bring this need to the attention of the public and show those most significant experiences on the national and international scene, already realized or in progress, and be the first of a series of events on the subject as an opportunity for meeting and exchange between administrators and sector operators to encourage the transfer of best practices and the start of possible new projects.

Section Chairs

Roberto Montanari, Emilia-Romagna Region

Enzo Pranzini, University of Florence, GNRAC

Michele Manigrasso, University G. d'Annunzio of Chieti-Pescara, Legambiente (Italian environmental association)

Programme

14.00 Greetings

Irene Priolo, Vice President and Councillor for Ecologic Transition and combating Climate Change, Environment, Soil and Coast Protection, Civil Protection of Emilia-Romagna Region

14.15 Session 1 - COASTAL AREAS, REGENERATION AND ADAPTATION TO CLIMATE CHANGE

The European initiative "Knowledge Hub on Sea Level Rise" and the impacts on the coast

Nadia Pinardi, University of Bologna, Co-chair KH-SLR

Coastal cities and climate change: the pilot cases of the north coast of Matanzas (Cuba)

Juan Alfredo Cabrera Hernández, Observatorio COSTATENAS Universidad de Matanzas, Cuba

Spatial planning and coastal adaptation in the State of Rhode Island

Grover Fugate, Coastal Resources Management Council of Rhode Island

The MiTE Experimental Programme on adaptation to climate change in urban areas: the projects of coastal municipalities

Francesca Giordano, ISPRA

Two-sided erosion and controlled environmental regeneration

Michele Manigrasso, Italian Coastal Landscapes Observatory, Legambiente

Waterfront requalification and adaptation to Sea Level Rise: the Rimini experience

Anna Montini, Councillor for Ecological Transition and Blue Economy of Rimini Municipality

15.45 Session 2 - PORT REGENERATION, ENERGY TRANSITION AND DEVELOPMENT OF PORT AREAS

Energy crisis and the role of port systems: proposals for a sustainable policy

Pasqualino Monti, President of the Port System Authority of the Western Sicily Sea

Economic and urban perspectives of the Port of Genoa

Marco Sanguineri, Director of Planning and Development, Port Authority of the Western Ligurian Sea / Beatrice Moretti, Architect, PhD, Department of Architecture and Design, University of Genoa

Green Ports: the future of the Port of Ravenna between efficiency, intermodality and sustainability

Daniele Rossi, President of Ravenna Port Authority

The LNG depot by the Port of Ravenna, a concrete contribution to the energy transition

Alessandro Gentile, CEO of Depositi Italiani GNL, PIR Group

For a sustainable development of smaller ports: the middle Adriatic as a case study

Gerardo Doti, Associate Professor of History of Architecture, University School of Architecture and Design of Camerino

A technology for the sustainable management of sediments in port areas

Cesare Sacconi, full Professor in Mechanical Industrial Plants, Department of Industrial Engineering, University of Bologna

Small ports as drivers of socio-economic development of coastal areas: the IT-HR FRAMESPORT project

Pierpaolo Campostrini, Director of CORILA (Consortium for coordination of the Research activities on Venice lagune system)

The European Mission Restore our Ocean, Seas and Waters by 2030

Sigi Gruber, Active Senior, European Commission, Directorate General Research&Innovation

TUESDAY 8
NOVEMBER

14:00 -
18:00

Noce Room A6
Pav

**Circular
Economy Value
Chains**
*Conference open to
Papers*
[Click here](#)

The industrial symbiosis for the national strategic circular economy

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & ENEA e SUN (Symbiosis Users Network)

CALL FOR PAPERS

Industrial symbiosis is a crucial tool for reducing dependence on raw materials, boosting competitiveness and the post-Covid economy and increasing the resilience through the establishment of territorial ecosystems able to absorb exogenous imbalances. In 2017, the Italian document "Towards a Model of Circular Economy for Italy - Overview and Strategic Framework" drawn up by the Ministries of the Environment and of the Economic Development, underlined the importance of industrial symbiosis as a tool for system eco-innovation, highlighting the need to set up an organic and systematic portfolio of economic and financial instruments to support businesses. In this direction, in 2021 the updated "National strategy for the circular economy", foreseen among the 63 fundamental reforms for the implementation of the Italian National Recovery and Resilience Plan, identified industrial symbiosis as one of the nine areas of intervention necessary to achieve the transition towards the circular economy in our Country, also providing support for the development of projeSTC, also through specific regulatory and financial instruments.

That event, now in its sixth edition, offers an opportunity to take stock of the road travelled so far and to define the goals that are to be achieved in the future in terms of policies and real operational cases.

Session Chair

Laura Cutaia, ENEA – SUN Symbiosis Users Network

Programme

14.00-14.10 Introduction

14.10-14.50 **Invited speakers**

Silvia Grandi, Ministry of Ecological Transition
 Micol Barnabò, Directorate General for Industrial Policy, Innovation and SMEs,
 Ministry of Economic Development
 Paolo Ferrecchi, Emilia-Romagna Region
 Marco Ravazzolo Confindustria (General Confederation of Italian Industry)

14.50-15.50 **Invited speakers – technical**

Industrial symbiosis applied to the Lombard context
 Enrico Maffa, Tenova

The industrial symbiosis in the process industry: the Norwegian experience
 Stine Skagestad, EYDE Cluster

Certification and standardization of industrial symbiosis
 Carlo Brondi, CNR, SUN GdL4

Results of the survey
 Massimo Ramunni, Assocarta - SUN GdL1

15.50-17.20 **Presentations from Call for papers**

L'importanza della co-progettazione nello sviluppo in un progetto di simbiosi industriale
 Elisa Amodeo, INVENTOLAB

A diversified and innovative platform to support industrial symbiosis
 Gianfranco Giolitti, Circular Economy Director Edison Next

Towards an industrial symbiosis network in Marche region: an exploratory research
 Alessandra Bonoli, Università di Bologna

Evaluation of the potential for development of the industrial symbiosis network for production of secondary pig iron by metallurgical sector in the Lombardy region
 Reza Vahidzadeh, Università degli Studi di Brescia

Il contributo e il potenziale della Simbiosi Industriale – il caso di studio della provincia di Milano
 Alessandro Reginato, Gruppo CAP

Assessing environmental/social benefits of industrial symbiosis in urban residues management
 Giuseppe Mancini, Università di Catania

Agri-fiSh Project. Circular economy application: from the field to the net. Innovative feeds from agricultural wastes for a sustainable aquaculture
 Germana Borsetta, Università di Camerino

Dall'agricoltura un packaging compostabile
 Giuseppe Marconi, Save As

Green products from industrial symbiosis: are consumers ready for them?

Luca Fraccascia, Sapienza Università di Roma

End of waste: l'esperienza applicativa

Alessandra Carboni, Montana

17.20-17.50 **Pitch – Case study**

Industrial symbiosis in the production of sustainable textiles: Orange Fiber s.r.l.

Rosario Carrabino, Università di Catania

Organic waste upcycled materials and industrial symbiosis practices: the current Italian scenario

Luca Alessandrini, Politecnico di Milano

Bioeconomia circolare nel settore vitivinicolo: il ruolo della Simbiosi Industriale

Olimpia Martucci, Università degli Studi Roma Tre

Ponticelle: dal risanamento alla riqualificazione di un'ex area industriale

Giuliano Romano, Eni Rewind

Industrial Symbiosis checklist for assessing the potential of Italian SMEs

Valentina Ventura, Università di Bologna

Simbiosi Industriale per la crescita economica sostenibile: analisi di modelli di collaborazione

Eugenio Papa, Università di Bologna

17.50-18.00 Discussion and Closure by the chair

Poster Session

SUN – P1 *Quantification of circular economy indicators in the wine sector: case study*

Cantine Nicosia S.p.A

Manuela Turco*, Sergio Arfò*, Chiara Tabita* , Aldo Carpitano** , Agata Matarazzo*; * Università di Catania, **Nicosia S.p.A.

SUN – P2 *Principles, methods and practices for declaring the content of recycled or reclaimed material in*

Alina Sevostianova, Svitlana Berzina, Viktoriia Khurutba, All-Ukraine NGO Living Planet

SUN – P3 *Quantification of environmental and economic performance indicators of a composting pilot plant for the correct waste management in Sicily*

Sergio Arfo*, Agata Matarazzo*, Giuseppe Guagliardi**, Angelo La Piana**, Alessia Arfo'***; *Università di Catania, **Progitec S.r.l, **Università LUISS Guido Carli

SUN – P4 *Hydrogen ready gas engines with MW size*

Klaus Payrhuber, Andrea Pivatello, Jenbacher srl

SUN – P5 *Sviluppo di una metodologia per la valutazione di sinergie territoriali da database open source*

Chiara La Porta*, Tiziana Beltrani**, Marco Bortolini*, Valentina Ventura*, Laura Cutaia**, Marco La Monica**, Cristina Mora*; *Università di Bologna, **ENEA

SUN – P6 *Italian coal phase-out: strategic co-optimization on the day-ahead and ancillary services market*

Ilaria Livi*, Edoardo Somenzi*, Federico Pontoni**, Filippo Del Grosso*;

*Fondazione Eni Enrico Mattei, ** Fondazione Eni Enrico Mattei e Università Bocconi

SUN – P7 *Simbiosi industriale potenziale basata sul trasferimento di scoria nera*

Anna Gobetti*, Giovanna Cornacchia *, Marco La Monica**, Giorgio Ramorino*;

*Università di Brescia, **ENEA

SUN – P8 *Potentialities and weakness of EECs in Sardinia: chances to educate tourists and children*

Marta Fundoni, Università di Sassari

SUN – P9 *Industrial symbiosis applied to the sustainable fashion sector*

Motta F.*, Mertoli F.*, Zerbo A.*, Puleo R.*, Russo S.**: *Università di Catania,

**Università Luiss Guido Carli

SUN – P10 *Sviluppo sostenibile e smart cities e communities: il ruolo della finanza pubblica e privata.*

Giovanni Moccia, Centro Studi di Ricerche Economiche e Sociali Mondì Sostenibili

SUN – P11 *BIOMODEL4REGIONS*

Patrizia Circelli Ciaotech srl (PNO Group)

SUN – P12 *Materie prime, filiere globali e sistemi locali in una prospettiva eco-industriale. Il caso del legno*

Casolani V., Taddeo, R., Simboli, A. Università "G. D'Annunzio" di Chieti-Pescara

SUN – P13 *Comunità Circolari e nuovi modelli di produzione e consumo*

Flavio Cammillozzi, Enrico Miletto, Giancarlo Cecchini, Alessandro Filippi; Acea Elabori S.p.A.

SUN – P14 *Industrial symbiosis as the new opportunity to boost circular consumption models*

Elena Chiti, GM Ambiente & Energia S.r.l., SpinLife S.p.a.

SUN – P15 *B10-WALL*

Rete di imprese APEA Regionale CARTONECO e nLAB

SUN – P16 *Misurare l'economia circolare nel settore agroalimentare: una panoramica delle review*

Valentino Tascione*, Gavina Manca*, Andrea Raggi**, Luigia Petti**;

*Università di Sassari, **Università di Pescara

SUN – P17 *3 strumenti per la neutralità climatica: carbon credits, carbon farming e carbon standards*

Michele Milan* Elisa Ferrari**, Daniele Dal Molin**, *EcamRicert e Merieux NutriSciences, **Bios srl

TUESDAY 8
NOVEMBER

14:15 -
16:15

Diotallevi 2 Room
South Hall

**Financing,
Education and
Communication**
[Click here](#)

Towards transparency: the role of sustainable finance against greenwashing

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Italian Sustainable Investment Forum and ART-ER

Sustainable finance is crucial to achieve the European Green Deal targets and a sustainable post-pandemic recovery. However, while the demand for sustainable financial securities continues to grow, greenwashing has become a fundamental issue. If not managed and efficiently prevented, greenwashing can undermine decarbonization efforts of public and private organizations. For this reason, contrasting greenwashing is today one of the main challenges. Everyone has to contribute to this. Public authorities have to implement effective science-based policy measures towards a sustainable economy. Companies have to commit for a clear and accurate sustainability reporting, in order also to attract sustainable investments. Responsible investors have to put in practice sustainable science-based investment strategies and decisions. Consumers have to ask for more disclosure and orient their choices towards more transparent brands.

Session Chairs

Francesco Bicciato, Executive Director, Italian Sustainable Investment Forum (FFS)
Enrico Cancila, Area manager, ART-ER ("Attractiveness Research Territory" Emilia-Romagna Joint Stock Consortium)

Programme

14.15-14.25 Welcome remarks

Francesco Bicciato, Executive Director, Italian Sustainable Investment Forum (FFS)
Enrico Cancila, Area manager, ART-ER ("Attractiveness Research Territory" Emilia-Romagna Joint Stock Consortium)

Maria Siclari, Executive Director, ISPRA (Italian Institute for Environmental Protection and Research)

14.25-14.40 *Institutional speech* - The role of European institutions in fighting greenwashing

Elisabetta Siracusa, Senior Advisor, DG FISMA

14.40-14.55 *A new challenge for ISPRA: sustainable finance*

Roberta Alani, Environmental Certifications Service, ISPRA (Italian Institute for Environmental Protection and Research)

14.55-15.10 *Presentation of the paper by FFS on system strategies against greenwashing*

Isabel Reuss, Senior Climate and Social Advisor, Italian Sustainable Investment Forum (FFS)

15.10-16.10 Roundtable - *Towards transparency: industry, public institution and finance facing greenwashing*

With:

Enrico Cancila, Area Manager, ART-ER

Sara Capuzzo, President, Ènostra

Massimo Fileni, Vicepresident, Fileni Holding

Paolo Pastore, General Director, Fairtrade Italia

Giovanna Zacchi, Head of ESG Strategy, BPER Banca

Giorgio Zampetti, General Director, Legambiente

Moderated by Dania Mondini, Journalist, Rai TG1

16.10-16.15 Conclusion remarks

TUESDAY 8
NOVEMBER

14:30 -
17:15

Ravezzi 2 South
Hall

**Waste
Management
and Valorization**
[Click here](#)

Industrial and Municipal waste between industrial development, planning and market

Language: Italian

Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee & Utilitalia

The distinction between industrial and municipal waste has very specific historical reasons and, above all, important consequences in terms of management and management responsibility. However, it takes on a different meaning depending on the perspective with which one looks at the world of waste. Territorial planning and the logic of the market operate, in a different way, starting from a clear separation between these two worlds. On the other hand, in the industrial perspective, where the only useful distinction is that between recoverable and non-recoverable waste, this distinction seems to lose meaning. Through the comparison between institutions, public authorities and waste operators, the conference will investigate the limits and implications of the distinction between municipal and industrial waste, in an attempt to understand if and possibly how it is possible to overcome it in a purely industrial logic.

Session Chair

Federico Foschini, President of Municipal Waste Europe

Programme

14.30 Introduction and coordination by the Chairman

Federico Foschini, President of Municipal Waste Europe

Industrial waste in waste management plans of Italian Regions

Luca Mariotto, Director of Environment Sector of Utilitalia

The viewpoint of the European Commission

Mattia Pellegrini, Head of Unit DG-ENV European Commission

Waste deriving from treatment of municipal waste between legislation, regulation and market

Andrea Farì, Ambientalex

Waste deriving from treatment of municipal waste: data reporting for verification of compliance with european and national targets

Andrea Lanz, Italian Institute for Environmental Protection and Research

Laura D'Aprile, Head of Department of Ecological Transition and green investments, Italian Ministry of Environmental Transition

16.00 *The testimony of industry*

Marco Ravazzolo, Head of Environment and Energy, Industrial policies sector
Confindustria

Patrick Hasenkamp, Vice President Waste of VKU, German Association of Local Utilities

Lennart Nübel, Referent Public Affairs Remondis

17.00 Conclusions

Filippo Brandolini, Vice President of Utilitalia

TUESDAY 8
NOVEMBER

14:30 -
17:30

Global Water Expo
Room D1 pav.

**Water
Management
and Valorization**
[Click here](#)

The National Recovery and Resilience Plan (PNRR) and water resource management

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Utilitalia

The National Recovery and Resilience Plan (PNRR) is offering a significant acceleration of investments and reforms of the Integrated Water Service (SII) and can therefore affect the improvement of the service and contribute to overcoming the criticalities of the sector, especially in some areas. The challenges, issues and proposals for the industrial development of utilities and the role of institutions for the implementation of the PNRR and the achievement of the milestones envisaged in the management and protection of water resources will be addressed.

Session chair

Marco Patuano, Vice President Utilitalia

Programme

14.30 Introduction by the Chair

Governance of the IIS and PNRR investments

Giordano Colarullo, General Manager of Utilitalia

The role of the Ministry of Infrastructure and Sustainable Mobility

Attilio Toscano, Ministry of Sustainable Infrastructure and Mobility

The role of the Ministry of Ecological Transition

Giuseppe Lo Presti, Ministry of Ecological Transition

Implementation of the PNRR over a large area: Renaturation of the Po river - recovery of the country's most important ecological corridor in defense and development of the territories

Alessandro Bratti, General Secretary of the Po Basin Authority

The role of ANEA

Leonardo Raito, Vice President of ANEA

The point of view of the suppliers of technologies and plants for water treatment

Lauro Prati, Vice President of Aquaitalia

PNRR and Environment

Stefano Ciafani, Legambiente

The role of ARERA

Lorenzo Bardelli, Director of the Environment Division and Acting Director of the Water Systems Directorate of ARERA

17.30 Conclusions

Alessandro Russo, Vicepresident Utilitalia

TUESDAY 8
NOVEMBER

15:00 -
18:00

Agorà Energy 2
pav. D7

[Click here](#)

Language: Italian

TUESDAY 8
NOVEMBER

15:00 -
18:00

Neri 2 Room
South Hall

[Click here](#)

Language: Italian

TUESDAY 8
NOVEMBER

15:00 -
18:00

Neri 1 Room South
Hall

[Click here](#)

Language: Italian

TUESDAY 8
NOVEMBER

16:00 -
18:00

Diotallevi 1 Room
South Hall

**Circular
Economy Value
Chains**
[Click here](#)

Circular energies: The materials at the service of the energy transition

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, Key Energy Scientific Technical Committee & RETEAMBIENTE

In the coming decade, the development of the renewable energy sector will be both impetuous and critical. And it will have to come to terms with the difficult sourcing of the necessary raw materials, fluctuating fossil fuel prices, the water crisis, and more. Therefore, new strategies to harvest renewable energy from the territories must be added to the large photovoltaic and wind power programmes, leveraging specific material flows that can become important carriers for this purpose. Many sectors are already prepared to be involved in this new scenario: from agro-food to sludge or organic fraction management, from the wood and furniture sector to pruning waste, with innovative high-performance solutions, consistent with their respective supply chains. And so, subjects that are already today players in the circular economy can become co-leaders of the energy transition, according to an integrated strategy that promotes new uses of biomaterials and renewable matter. This is a unique challenge, as the energy sector has so far not embraced the issue of material circularity, whilst renewable fuel strategies are only in their infancy. The convention - through the contributions of experts, industrial operators, and key players in transition policies - aims to look at "who can do what" and start a discussion on how current and significant the contribution of materials can be in accelerating and consolidating the energy transition.

Session Chairs

Gianni Silvestrini, Presidente of Key Energy Scientific Technical Committee e Scientific Director of the Kyoto Club

Programme

Moderated by:

Sergio Ferraris, Director of the magazine Nextville

16.00 Accreditation of participants and opening of the session

16.10 *The EU vision on the energy transition and the 2030 targets*

Hon. Simona Bonafè, Member of the Chamber of Deputies

16.20 *Energy Economics and Ecological Transition*

David Chiaramonti, Professor of Energy Engineering Politecnico di Torino

16.30 *Energy Circularity*

Nicola Tagliaferro, Head of Sustainability Enel X Global Retail

16.40 *Sewage sludge vs renewable energy*

Michele Platè, Head of processes and environmental performance at Gruppo CAP

16.50 *Valorisation of wine waste in the industrial production*

Sergio Celotti, CEO Enomondo, a Caviro Group company

17.00 *Technological development and digitalisation for the sustainable growth of the electricity sector*

Agostino Re Rebaudengo, President of Elettricità Futura

17.10 *The use of biomass to achieve carbon-neutral targets*

Raffaele Raso, CSR & Sustainability Manager Andriani S.p.A.

17.20 *The prospects of biogas and biomethane production in agriculture*

Piero Gattori, President of CIB

17.30 *Biomethane: a key energy vector for a low-carbon future.*

Giovanni Baldassarre, Head of Environmental Origination Edison NEXT

17.40 *The future of anaerobic digestion plants*

Bettina Muller, Head of After Sales, BTS Biogas

17.50 Conclusioni

TUESDAY 8
NOVEMBER16:30 -
18:00Bio-based Industry
Room D1 pav.
[Click here](#)

Thematic session - THE CIRCULARITY OF WATER:
Challenges, solutions and technologies for a new
international geography: partnerships between Italy and
the Netherlands

Language: English
Simultaneous translation: Italian

**Organized by the Embassy and Consulate General of the Netherlands and
Renewable Matter**

Programme

Introduction and chair

Emanuele Bompan, Editor-in-chief, Renewable Matter

Opening remarks

Agnes Agterberg, Head of the Economic Department, Embassy of the Kingdom of the Netherlands in Italy

Raimondo Orsini, Director, Sustainable Development Foundation

16.40-17.00 *Set the scene: challenges and solutions for water security*

Dennis van Peppen, Deputy Special Envoy for International Water Affairs and Manager of Global Water Programs, Netherlands Enterprise Agency

Alessandro Bratti, Segretario Generale dell'Autorità distrettuale del Fiume Po-MiTE

17.00-17.55 *Circular technologies and companies: italy and the netherlands compared*

Hein Molenkamp, Director, Water Alliance

Cinzia del Zoppo, Senior Advisor, Sustainable Development Foundation

Michele Falcone, Direttore sviluppo strategico, Gruppo Cap

Coos Wessels, CEO, CirTec

Marzia Chiesa, CEO, Sodai, Nijhuis Saur Industries Group

Ruud de Vetter, International Sales Engineer, Pure Water Group

17.55-18.00 *Conclusions*

Emanuele Bompan, Editor-in-chief, Renewable Matter

WEDNESDAY 9 NOVEMBER

WEDNESDAY 9
NOVEMBER

09:30 -

10:30

Agorà Efficiency

pav. B6

[Click here](#)

Data and processes for assessing impact throughout the life cycle of buildings

Language: Italian

Organized by: Green Building Council Italia

Whole life-cycle impact assessment is increasingly referred to in new regulatory measures. The new Level(S) reporting scheme, promoted by the European Commission's DG Environment, represents the European approach on assessing the environmental impact of buildings over their life cycle, and is able to integrate the concepts of circularity in construction and LCA methodology within the framework policies for environmental sustainability. The new Decree on Minimum Environmental Criteria in Construction of June 23, 2022, introduces LCA and LCC analysis as rewarding criteria. In the face of the strong regulatory dynamism and the proliferation of standards of different nature and level, the key to ensuring veracity and reliability of the studies carried out and to raise awareness of these issues among consumers and practitioners is to identify unambiguous methodologies, standards and references.

Moderation

Marco Caffi, Green Building Council Italy

Program

Measuring impact throughout the life cycle

Roberto Giordano - Polytechnic University of Turin

The Arcadia national data platform for LCA assessment

Caterina Rinaldi - ENEA ARCADIA platform coordinator*

The role of third party certifications

Fabrizio Capaccioli - ASACERT

Discussion and closing remarks

* Invitees awaiting confirmation

WEDNESDAY 9
NOVEMBER

09:30 -
10:45

Innovation Arena -
South Hall

Research and
Innovation

[Click here](#)

Mexico - Opportunities in the green technology sectors ITALIAN LANGUAGE SESSION

Language: Italian
Simultaneous translation: Italian

Organized by: Italian Exhibition Group S.p.A.
In collaboration with: AEMI - Economic Association of Mexico in Italy

Programma

Moderator:
Emanuele Bompan Director of Renewable Matter

9.30-9.35 Corrado Peraboni, Italian Exhibition Group SpA, CEO

9.35-9.40

Luis Anaya Imazio, Chief of Economic -Commercial Department, Embassy of Mexico in Italy

Letizia Magaldi, President of the Economic Association of Mexico in Italy (AEMI)/CaMexItal

9.40-9.47 *Greening-E*

Alejandro Ruiz, Country Manager Italy

9.47-9.56 *The economic landscape of Mexico and business opportunities in the Circular Economy*

Cecile De Mauleon, Director – AEMI Economic Association of Mexico in Italy / CaMexItal

9.56-10.05

Paolo Malfitano, Trade Analyst ICE Trade Agency Messico

10.05-10.30 *Case histories on Technological innovation for sustainable development*

Gruppo Manni: Michele Cattaneo, Energy Efficiency Division Director

Forrec Spa: Luisa Macchion, Head of Marketing Department

Evaled Evaporation Technologies: Giovanni Silvestri, International Market Sales Director di Veolia Water Technologies Italia Spa - EVALED Solutions Division.

10.30-10.37 *Support tools for Italy-Mexico economic and technological exchange*

Luca Passariello, Head of Business Promotion SACE - Italian Export Credit Agency

10.37-10.45 *Presentation of the exhibition "Ecomondo Mexico", Guadalajara, 26-28 April 2023*

Bernd Rohde, IGECO, CEO

10.45 Q&A

WEDNESDAY 9
NOVEMBER

09:30 -
10:45

Ravezzi 1 Room
South Hall

Research and
Innovation

[Click here](#)

GREEN ASSIST – The new advisory initiative to make your investments greener

Language: English

Simultaneous translation: Italian

Organized by: European Climate, Infrastructure and Environment Executive Agency (CINEA)

This event marks the official launch of GREEN ASSIST - The Green Advisory Service for Sustainable Investments. Speakers will present this new advisory initiative that will operate under InvestEU and is funded from the LIFE programme. This initiative aims at building up a pipeline for green investment projects with a high impact. A discussion with experts and potential beneficiaries will illustrate how the initiative works and its potential added value for projects.

Programme

9.30-9.40 *Welcome*

Philipp Troppmann, Deputy Head of Unit, CINEA

9.40-9.45 **Keynote speech – The policy perspective**

Florika Fink-Hooijer, General Director, DG ENVIRONMENT

9.45-9.50 **Launch of Green Assist**

Dirk Beckers, Director, CINEA

9.50-10.05 **Green Assist – Details & functioning**

Gauthier Clar, Senior Manager Financial Engineering, CINEA

10.05-10.35 *Panel discussion*

Jan Maarten de Vet, Project director of the Green Assist Framework Contract at Ecorys

Leo Manzari, Expert in blue economy

Isabel Reuss, Senior Climate & Social Advisor at the Forum per la Finanza Sostenibile

Mario Bonaccorso, Director at ClusterSpring

10.35-10.45 *Q&A Session*

Also via Slido #GreenAssist

10.45-10.45 *Concluding remarks*

Dirk Beckers, Director, CINEA

WEDNESDAY 9
NOVEMBER

09:30 -
10:45

Innovation Arena -
South Hall

Research and
Innovation

[Click here](#)

Mexico - Opportunities in the green technology sectors

Language: English

Simultaneous translation: Italian

Organized by: Italian Exhibition Group S.p.A.

In collaboration with: AEMI - Economic Association of Mexico in Italy

Programme

Moderator:

Emanuele Bompan Director of Renewable Matter

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WEDNESDAY 9
NOVEMBER

09:30 -
13:00

Neri 1 Room South
Hall

[Click here](#)

Language: Italian

WEDNESDAY 9
NOVEMBER

09:30 -
17:30

Gemini Room C1
Pav.

**Hydrogeological
Risks and
Mitigation
Measures**

[Click here](#)

Integrated systems for monitoring of works in areas affected by natural, anthropic and environmental hazards

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Italian Geotechnical Society – Associazione Geotecnica Italiana (AGI)

The monitoring of slopes, of civil and environmental works, such as bridges, tunnels, landfills and contaminated sites, is a crucial current issue, related to frequent problematic situations connected to the risk and to the disaster prevention, which is considerably linked to urban and extra-urban regeneration issues.

Session Chairs

Daniele Cazzuffi, CESI SpA - Milan

Nicola Moraci, Mediterranea University of Reggio Calabria

Programme

9.30-10.00 Registration

10.00-10.20 Introduction

Daniele Cazzuffi, CESI SpA - Milan

Nicola Moraci, Mediterranea University of Reggio Calabria

Session 1. Monitoring Systems of slopes, geotechnical structures and infrastructures

Chairs:

Nicola Moraci, Mediterranea University of Reggio Calabria

Settimio Ferlisi, University of Salerno

10.20-10.45 *Control and monitoring of the soil/work complex: regulations in force framework*

Stefano Aversa, Parthenope University of Naples

10.45-11.10 *Slow-moving landslide monitoring systems for the built heritage damage analysis*

Giovanni Gullà, Research institute for geo-hydrological protection of the Italian National Research Council (CNR - IRPI)

11.10-11.35 *Multi-source integrated systems for monitoring works in subsiding areas*
Dario Peduto, University of Salerno

11.35-12.00 *Large excavations monitoring systems in urban area*
Giovanni Vaciago, Studio Geotecnico Italiano, Milan

12.00-12.25 *Bridge integrated monitoring systems*
Settimio Ferlisi, University of Salerno

12.25-12.50 *Integrated and innovative monitoring systems for the underground works*
Alessandra Sciotti, Italferr SpA, Rome

12.50-13.00 *European project for monitoring the monument and cultural heritage in alpine regions*
Stefania Fontana, Fondazione Lombardia per l'Ambiente, Milano

13.00-13.15 Discussion

Session 2. Integrated monitoring systems for landfill and contaminated sites

Chairs:

Nicola Moraci, Mediterranea University of Reggio Calabria
Quintilio Napoleoni, Sapienza University of Rome

14.00-14.25 *Control and monitoring of landfill and contaminated sites: regulations in force framework*
Evelina Fratolocchi, Marche Polytechnic University

14.25-14.50 *Old landfill monitoring systems*
Quintilio Napoleoni, Sapienza University of Rome

14.50-15.15 *New landfill monitoring systems*
Roberto Raga, University of Padova

15.15-15.45 *Monitoring systems for landfill aftercare period*
Daniele Biondi, Herambiente SpA, Bologna
Francesca Pannunzio, Herambiente SpA, Bologna
Silvia Bondanini, Herambiente SpA, Bologna

15.45-16.20 *Efficiency of old landfills protection systems. The survey of Seveso and Meda basins*
Elio Crescini and Piero Simone, Montana SpA, Milan

16.20-16.45 *Geophysical surveys for the leachate control*
Giorgio De Donno, Sapienza University of Rome

16.45-17.15 Discussion

17.15-17.30 Closing remarks
Daniele Cazzuffi, CESI SpA - Milan

WEDNESDAY 9
NOVEMBER

10:00 -
12:30

Tiglio 2 Room A6
Pav

**Environmental
Monitoring &
Control**

*Conference open to
Papers*

[Click here](#)

Health Impact Assessment (VIS): the collaboration between national and regional institutions in the deepening of the National Institute of Health (ISS) Guidelines

Language: Italian

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

CALL FOR PAPERS

The workshop aims to describe the useful collaboration between national and regional institutions for the purpose of deepening the guidelines (LGs) on HIA, drafted by the Istituto Superiore di Sanità. Currently, a CCM project funded by the Ministry of Health and carried out in collaboration with the local authorities of Emilia Romagna, Marche, Sardinia and Friuli Venezia Giulia, deepens the methodologies and approaches of the LGs taking into account, also, the needs experienced at different institutional levels and in different areas, stimulating the search for a homogeneous and consistent approach on the Italian territory.

Session Chairs

Maria Eleonora Soggiu, National Institute of Health
Gianluigi de Gennaro, University of Bari "Aldo Moro"

Programme

10.00 Introduction by the Chairs

10.20-10.40 *Environment and Health: the commitment of the Ministry of Health*
Pasqualino Rossi, Ministry of Health

10.40-11.00 *The results of the CCM HIA project "Health Impact Assessment: training of personnel belonging to regional control bodies and deepening of the ISS Guidelines"*
Maria Eleonora Soggiu, Higher Institute of Health

10.40-11.00 *Ecotoxicological assessment in the context of the HIA*
Mario Carere, Ines Lacchetti, Laura Mancini, Higher Institute of Health

11.00-11.20 *Criticalities in epidemiological assessments in the context of VIS for industrial plants*
Roberto Pasetto, Higher Institute of Health

11.20-11.40 *Future perspectives of HIA within state and regional institutions and proceedings*
Paolo Collarile, Central Friuli University Health Authority

11.40-12.00 *Speech from Call for Papers*

11.40-12.00 *Volatolomics da espirato*
Claudio Clini¹, Giuseppe Novelli², Federica Sangiulo², Alessandro Filippi³, Giancarlo Cecchini³; Alessandro Frugis³; Corrado Corradi³

¹SAGEN Associazione Salute Ambiente Genoma; ²Professore Ordinario di Genetica Medica dell'Università degli Studi di Roma "Tor Vergata"; ³AceaElabori

12.00-12.15 Discussion and Closure by the Session Chairs

Poster Session

EMC3-1 *Metodi e approcci per la gestione e tutela dei servizi ecosistemici dei suoli nei cantieri*

Andrea Monti, Elena Ballabio, Elena Castelli, Erika De Finis, Alessia Mariotto, Elisa Nava, Valeria Spirolazzi, Arpa Lombardia

WEDNESDAY 9
NOVEMBER

10:00 -
12:45

Workshop Room
B1 pav.

Circular
Economy Value
Chains
[Click here](#)

The recycling industry: towards the new European targets between non-technological barriers and the boost for innovation

Language: Italian

Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee & UNIRIMA, ASSORIMAP, ASSOFERMET

Assofermet, Assorimap and Unirima, 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 and with the common goal: recognizing the centrality of recycling in Italian and European industrial and environmental policies. These strategic sectors in the development and promotion of a circular economy in the waste sector, having/ a total of about 4,000 plants and 45,000 employees throughout the national territory, although they are excellences of our Country, leaders in the production of EoW / SRM, they have to deal with a growing bureaucracy, often unclear regulations, failure to comply with the principles of competition, the need for constant innovation to be competitive and to face the increasingly complex challenges of the markets. In order to respond to the principles outlined by the Circular Economy and the Green New Deal, the field of the production of raw materials from waste treatment activities therefore needs adequate tools that relaunch the sector and, above all, that this important sector of the circular economy be placed at the center of national and European industrial policies.

Session Chair

Silvia Serranti, Sapienza University of Rome

Programme

10.00 Introduction

Silvia Serranti, Sapienza University of Rome

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

Assofermet (National association of recycling of ferrous and non-ferrous metals)

Brief introduction by Cinzia Vezzosi, Assofermet and Euric Vice President

Francesco Costa, CO.MET.FER. Spa

Assorimap (National Association of Recyclers and Regenerators of Plastic Materials)
Brief introduction by Walter Regis, President
Remo Brusaferrì, B. For PET Srl

Unirima (National Union of Pulp Recovery and Recycling Enterprises)
Brief introduction by Francesco Sicilia, General Manager
Annamaria Buono, Calabria Maceri e Servizi SpA

The European framework

Emmanuel Katrakis, Secretary General EURIC - European Recycling Industries' Confederation

Ton Emans, President PRE - Plastics Recyclers Europe

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

12.30 Conclusions

WEDNESDAY 9

NOVEMBER

10:00 -

13:00

Tiglio 1 Room A6
Pav

**Agri-food,
Forestry and Bio-
based Industry**
[Click here](#)

Circular economy in agri-food systems as a firm benchmark in the uncertainty of future scenario

Language: Italian

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

The Italian agri-food system has always been a model of sustainable production and consumption, able to combine the growing needs of the world population with the competitiveness of agri-food systems while respecting environment, local communities, and social growth. The agri-food chain, which Cluster CL.A.N. represents at different levels, is aware of how the use of agricultural resources in all their components (including by-products and residues), in compliance with the rules for the protection of health and environment, creates a virtuous circle functional to the implementation of the EU Circular Economy current policies and regulations. At this regard, it is essential to accelerate the research and implementation of alternatives in the management of waste, energy (from renewable sources, but with a low environmental impact at the end of life) and water (reduction of losses and waste, recovery and process water sanitization, desalination, etc.), and on the sustainable management of packaging and related waste.

All this without forgetting, especially in the persistent climate of uncertainty due to the complex contingent circumstances, that the sustainability of agri-food systems will be achieved only by combining the three pillars (environmental, social, and economic) according to a principle of equal balance between them. The workshop organized by Cluster CL.A.N. will be an opportunity to let Cluster members (companies, research, and territories) express their opinions on these issues. The outputs will be collected into a Position Paper to be shared with interested institutions and stakeholders.

Session Chairs

Mauro Fontana, President of the National Agrifood Cluster CL.A.N.

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

Programme

10.00-10.05 Opening and welcome words
Mauro Fontana, President CL.A.N.

10.05-10.20 *Setting the scene of Italian and European bioeconomy*
Giorgio Urbano, Manager of Industrial Sustainability Strategy Rina Consulting

10.20-12.45 **Round Table: talk contributions by Cluster Members**
Moderator: Massimo Iannetta, President Scientific and Technical Committee CL.A.N.

10.20-11.20 *The point of view of Cluster associated companies*
Jean Pierre Studer, CEO Inlab Solutions.
Alice La Tona, Innovation Director Mutti S.p.A.
Rosario Rago, President Rago Group
Andrea Rigoni, CEO Rigoni di Asiago S.r.l.

11.20-11.50 *The point of view of Cluster associated R&D bodies*
Veronica Lattanzio, Senior Researcher at CNR and Coordinator of FoodSafety4EU project - FoodSafety4EU multistakeholder platform for food safety in Europe

Davide Viaggi, Full Professore University of Bologna - Sustainable and circular innovation through supply chain relationships and education: the CONSOLE and BIOBEC projects

11.50-12.30 *The point of view of Cluster associated territorial institutions*
Luciano Concezzi, Head of innovation and research Dept. at Parco Tecnologico 3A - Regione Umbria - Regional actions for the circular economy and sustainable development

Valeria Fascione, Councilor for Research, Innovation and Start-up at Campania Region

12.30-12.45 Summary of Round Table outcomes
Patrizia Brigidi, Vicepresident of Scientific and Technical Committee CL.A.N. and CL.A.N. representative within the National Bioeconomy Coordination Board

12.45-13.00 Key conclusions
Representative of Italian Ministry for Ecological Transition (TBC)

13.00 Closing remarks
Mauro Fontana, President CL.A.N.

WEDNESDAY 9

NOVEMBER

10:00 -

13:00

Ravezzi 2 South
HallCircular
Economy Value
Chains
[Click here](#)

Measurement of circularity

Language: Italian

Organized by: Ecomondo Technical Scientific Committee & Scuola Superiore Sant'Anna, ENEA

The event will focus on the measurement of circular economy within the framework of assessing the contribution of enterprises to the ecological transition. The measurement of circularity represents a prerequisite for implementing the transition path from a take-make-dispose economic model to a circular and regenerative model. It is based on the monitoring of physical and economic aspects of the examined systems (organizations, supply chains, sectors, etc.) in order to acquire information useful for identifying areas for improvement and setting new priorities. Various approaches and methods for measuring circularity have been developed in recent years, but no single, universal approach has been consolidated to adequately capture the complexity and multiple aspects involved in the path to the circular economy. This workshop aims to present an overview of the different international and national methodologies and explore the importance of measurement with companies that have applied one of these approaches.

Session Chairs

Marco Frey, Scuola Superiore Sant'Anna

Roberto Morabito, ENEA Department of Productive and Territorial Systems Sustainability

Programme

10.00-10.20 *Introduction to different models and experiences in the measurement of circularity*

Marco Frey, Scuola Superiore Sant'Anna

10.20-11.50 Session on **"National and international initiatives related to indicator systems in the circular economy"**

10.20-10.40 *The voluntary standardization UNI-ISO*

Laura Cutaia, ENEA - President CT UNI 57

10.40-11.00 *The CE perspective*

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

11.00-11.20 *The Scuola Sant'Anna's methodology for evaluating circularity and its applications in retail and FMCG companies*

Fabio Iraldo, Scuola Superiore Sant'Anna

11.20-11.30 *The Circul-up tool*
Carolina Gomez, GS1

11.30-11.40 The Experience of Assolombarda
Vittorio Biondi, Assolombarda

11.40-11.50 *Tools for measuring the circular economy in the Circular Economy Platform (ICESP)*
Filippo Servalli, RadiciGroup Co-coordinator GdL3 ICESP

11.50-12.50 Session on "**Experiences of measuring circularity by enterprises**"

Nicola Tagliaferro, Enel X
Paola Volpe, Eni
Barbara Cimmino, Yamamay
Alessandra Teruggi, Metro
Guio Saul, Radici Pietro Industries & Brands
Paolo Manghi, R&D Manager Parmalat (TBC)
Yves Robion, Evoca (TBC)

12.50-13.00 Conclusions

WEDNESDAY 9
NOVEMBER

10:00 -
13:30

Diotallevi 2 Room
South Hall

**Research and
Innovation**
[Click here](#)

Transition towards carbon neutrality

Language: English
Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee & BNCT working party, OECD

We have started down the complex transition from today's fossil carbon to a new energy and renewable carbon future. The pathway is relatively clear in energy, reflected in the current success of solar and wind technologies, but other sectors will also have to be addressed. The chemicals industry represents a large opportunity for carbon capture and utilisation (CCU). The renewable carbon family of bio-based carbon and CO₂-based carbon and carbon from recycling represent huge, relatively untapped opportunities. However, we need an overarching carbon management strategy for the chemical sector that enshrines the sustainable, circular economy approach. The present workshop reviews progress to date on a project on Carbon Management of the Bio-, Nano- and Converging Technologies (BNCT) working party of the OECD. Case studies from six countries will be presented and discussed.

Session Chairs

Jim Philp, OECD

Programme

10.00-10.30 *Introduction*

Chairs:

Ole Jørgen Marvik, Innovation Norway
Jim Philp, OECD

10.00-10.10 *Introduction by Ole Jørgen Marvik: A systemic approach to the carbon cycle*

10.10-10.30 *BNCT work on carbon management, 2021-2022: an overview*
Jim Philp, OECD

10.30-12.30 *Roundtable*

During the two-year period 2021-2022, a total of 16 case studies on CCU(S) technologies in nine different countries were received. Five of these are summarised here to reflect the diversity of technologies and feedstocks. A sixth case study presents funding mechanisms for the green transition to net-zero carbon.

Chairs:

Jim Philp, OECD

Christian Patemann, Former Director European Commission - DG RTD, Environment and Bioeconomy

10.30-10.50 *Using innovation challenges as funding mechanisms to accelerate emerging CCUS technologies in Canada*

Andrew Klain, Canadian Forest Service/Economic Analysis Division, Natural Resources, Canada

10.50-11.10 *Bio-based, biodegradable and compostable bioplastics for organic recycling and the creation of compost*

Giulia Gregori, IT Cluster Circular Bioeconomy SPRING

11.10-11.30 *CO₂ from waste incineration to cultivate microalgae at Saga City*

Naoto Terauchi, Renewable Energy Policy Office, Environment and Biomass Policy Division, Ministry of Agriculture, Forestry and Fisheries, Japan

11.30-11.50 *Sustainable chemicals and fuels production using nanotechnology in Korea*

Ki Tae Park, Konkuk University, Korea

11.50-12.10 *Atmospheric CO₂ for storage and use - a proposed Norwegian industrial ecosystem?*

Ole Jørgen Marvik, Innovation Norway, Norway

12.10-12.30 *Fermentation of waste gases to sustainable aviation fuel (SAF): the importance of hybrid technologies*

Jay Fitzgerald, United States Department of Energy

12.30-12.50 Discussion and comments on the case studies presented

Chairs:

Fabio Fava, University of Bologna

Angelo Salsi, Former Head of Department at CINEA - European Commission

12.50-13.15 *Open discussion: What do we need to make holistic technology and policy choices in carbon management?*

13.15 Closure by Chairs

WEDNESDAY 9
NOVEMBER

10:00 -
13:30

Environmental
Monitoring &
Control Room
pad. D7

**Water
Management
and Valorization**
*Conference open to
Papers*
[Click here](#)

Zero Polluted and Circular Water - Sludge management, treatment and valorization

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & University of Brescia, IRSA-CNR, ISS, Utilitalia

CALL FOR PAPERS

In view of the EU Green Deal and Zero Pollution Action Plan, the need of a new regulatory framework to support sustainable and resilient sludge management, incorporating a broader scope for risk assessment and strict sludge quality control is more and more felt for quick. Approximately 25kg of dry sludge are produced per person per year all across Europe as by-product of the wastewater treatment process, and the size of the sludge production is strictly related to the efficacy of the treatment. Sludge use will be tackled from a circularity perspective, aiming at pollution prevention, resource efficiency and business opportunities. In this context, several new technologies are being developed in the last years, but in many cases these are unfortunately not sufficiently mature to be developed at a large scale, and need to be framed by appropriate legislation. Successful examples will be showcased.

Session Chairs

Giorgio Bertanza, University of Brescia
Camilla Braguglia, IRSA CNR (Water Research Institute - National Research Council)
Tania Tellini, UTILITALIA (Italian federation of energy, water and environmental services)

Programme

10.00-10.10 Introduction by the Chairs (and a short summary on the papers presented through posters)

10.10-10.30 *Updates on Sewage Sludge Directive and UWWTD*
Bernd Gawlik, Joint Research Centre, European Commission (TBC)

10.30-10.50 *Sludge Recovery in agriculture: ecotoxicology for the circular economy (the SLURP project)*
Roberta Pedrazzani e Giorgio Bertanza, University of Brescia
Sara Castiglioni, Mario Negri Institute

10.50-11.10 *New sustainable technologies to transform sewage treatment plants into "green factories" as required by PNRR*
Elena Mauro, Utilitalia
Giancarlo Cecchini, Acea Elabori
Nicola Tselikas, AqP
Alessandro Reginato, Gruppo CAP

11.10-11.30 *Risk analysis scenarios in sludge management*
Eleonora Beccaloni, Italian National Institute of Health

11.30-13.15 **Speakers from Call for Papers**

11.30-11.45 *AirPrex P-Recovery and Sludge Optimization*

Davide Perduca, Perduca Ambiente srl

11.45-12.00 *Use of sewage sludges for CO2 removal*

Davide Papurello, Dipartimento di Energia-Politecnico di Torino

12.00-12.15 *Sludge reduction in the Grosseto Hub through Newlisi hydrolysis: a case study*

Edoardo Riccio, Newlisi spa

12.15-12.30 *Potenzialità della stabilizzazione aerobica nella riduzione drastica dei fanghi: sperimentazione*

Marta Domini, DICATAM-Università di Brescia

12.30-12.45 *Potenziale dei trattamenti idrotermici propedeutici all'incenerimento dei fanghi di depurazione*

Federico Viganò, Politecnico di Milano

12.45-13.00 *Disidratazione tramite filtropressa di fanghi di depurazione post HTC*

Daniele Pirini, B-Plas

13.00-13.15 *Si fa presto a dire Idrocarburi! Uso ed abuso di un parametro non proprio "semplice"*

Tiziano Vendrame, ARPA Veneto

13.15-13.30 Discussion and closure by the Chairs

Poster Session

WTMV1 – 1 *PONDUS - Thermo-Alkaline Hydrolysis of sewage sludge*

Davide Perduca, Perduca Ambiente

WTMV1 – 2 *DePrex Degassing - Recovery of dissolved methane in anaerobically treated biosolids*

Davide Perduca, Perduca Ambiente

WTMV1 – 3 *Bioconversion of urban sewage sludge mediated by larvae of black soldier fly, *Hermetia illucens**

Silvia Amone, ENEA Roma

WTMV1 – 4 *The Roles of Wastewater Treatment Plants (WWTPs) in Energy Production & Net-Zero in Europe: "Lessons from Germany and Italy"*

Lamiaa Chab, Università della Tuscia di Viterbo

WEDNESDAY 9
NOVEMBER

11:00 -
13:00

Innovation Arena -
South Hall

**Circular
Economy Value
Chains**
[Click here](#)

Textiles as an opportunity: challenge and commitment of the Stakeholders of the sector

Language: Italian

Simultaneous translation: English

Organized by: Ecomondo Scientific Technical Committee & LVMH Italia

Textiles have been identified as a key value chain in the EU action plan, to promote sustainability and circularity, as well as traceability and transparency, through a combination of eco-design requirements, producer responsibility schemes and labelling systems. The intention, during the debate within the main actors of the fashion and luxury system, is to highlight the contribution of all stakeholders in responding to these challenges, bringing to light proposals, targets and ongoing projects. We believe that new European inputs and requirements will boost innovation in the sector and will give new impulse in the industrial competitiveness by promoting new business models.

Session Chair

Eleonora Rizzuto, Ecomondo STC, Director of Sustainable Development LVMH Italia and coordinator of the Textile & Fashion sub-group for ICESP

Programme

Moderation by RAI for Sustainability Journalist

11.00-11.30 **Introduction**

Presentation of the Agenda/Participants

Eleonora Rizzuto, Director of Sustainable Development LVMH Italia and coordinator of the Textile & Fashion sub-group for ICESP

Stakeholders involvement: ICESP point of view

Roberta De Carolis, Project Manager ENEA-ICESP (Italian Circular Economy Stakeholder Platform)

The European textile strategy, eco-design and implementing rules for the sector

Paola Migliorini, deputy Head of Unit Circular economy, sustainable production and consumption, DG Environment, European Commission

11.30-11.55 **Circular Creativity in LVMH**

Arnaud Lajoinie, LVMH Climate and Circular Projects Director

Specialised Suppliers: Textiles and Social Innovation

Anna Fiscale, Founder Progetto Quid

Circular Thinking: Collaborations and Circular Services in Fendi

Claudia Patti, Sustainability Development Coordinator

Sofia Arena, Sustainability Operations Coordinator

11.55-12.20 **Best practices***Circularity in luxury through cooperation and new business models*

Sara Mariani, Chief Sustainability Officer OTB

Beyond circular fashion: a transparent supply chain that generates opportunities

Alfio Fontana, Corporate Partnership & CSR Manager Humana People to People Italia

12.20-12.40 **Research & Development, Innovation**

Daniela Ott, General Secretary of the Aura Blockchain Consortium

12.40-13.00 **Debate: Vintage & Second Hand, comparing opinions** (all referents on stage)

RAI journalist and Eleonora Rizzuto, Director of Sustainable Development LVMH Italia and coordinator of the Textile & Fashion sub-group for ICESP

WEDNESDAY 9

NOVEMBER

11:15 -

13:15

Ravezzi 1 Room
South Hall**Financing,
Education and
Communication**
[Click here](#)**Blue skills and careers for the European Green Deal**

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo STC & Italian Ministry of Education, European Commission

The green and digital transition is already opening up to new opportunities in the blue economy's job market. However, the lack of well-trained professionals and highly-skilled personnel working in sectors, including offshore marine renewable energies, shipping, underwater operations, biotechnologies and aquaculture, and limited public perception of blue careers, can hinder the sustainable blue economy to contribute to the objectives of the green deal and of a circular economy. To fully exploit its potential, there is a need of creating an ecosystem for blue skills able to improve or put in place, where it is not existing, an effective cooperation amongst stakeholders, matching the needs of the industries and attracting women and new generations in this labour market.

The Blue Careers programme, which since 2016 has provided grants, under the European Maritime and Fisheries Fund (EMFF), to retrain and reskill the blue economy sectors, will now expand to cover the training needs stemming from the European Green Deal and the pandemic crisis. The key objectives will also encompass the development of core green skills and boosting digital skills. This includes promoting the use of the GreenComp, a European reference framework for sustainability competences.

Session Chair

Luca Marangoni, Deputy Head of Unit, European Climate, Infrastructure and Environment Executive Agency - CINEA Unit D3 – Sustainable Blue Economy, European Commission

Silvia Grandi, Director General, Ministry of Ecological Transition, Italy

Programme

10.45-11.15 Registrations

11.15-11.30 *EU support to the development of Blue Careers*

Luca Marangoni, Deputy Head of Unit CINEA Unit D3 - Sustainable Blue Economy, European Commission

11.30-11.40 *Blue Skills and Careers: the Italian experience*

Dott. Ing. Stefano Versari, Italian Ministry of Education

11.40-11.50 *The GreenComp framework*

Guia Bianchi, Joint Research Centre (JRC-Seville), Unit B7 - Knowledge for Finance, Innovation and Growth, European Commission

11.50-12.00 *A Mediterranean perspective for new skills and jobs*

Flavia Rolli, Italian National Institute of Oceanography and Applied Geophysics (OGS)

12.00–12.10 Q&As

12.10-13.10 *Panel discussion (best practices, lessons learnt, bottlenecks, opportunities)*

Chair: Silvia Grandi, Director General, Italian Ministry of Ecological Transition

Panelists:

Raphaela Gutty, Cluster MARE FVG (ASSESS project)

Lucie Saxton, STC Group (TEAMS project)

Jerneja Penca, Euro-Mediterranean University (COE-SUBE - Centre of Excellence on Sustainable Blue Economy)

Federica Bruni, Network and Development Coordinator - businessmed-umce

WEDNESDAY 9
NOVEMBER

11:30 -
13:00

Tulipano Room B6
Pav

[Click here](#)

Climate Change Perspectives: the path of China

Language: English

Organized by: Kyoto Club, Key Energy Scientific Technical Committee

2050 is just 28 years from now, which means it's close enough that one can figure it out, but it's also far enough away that one cannot tell what it is going to be like. How will the global economic order change by 2050? How will humanity manage and control climate change, or adapt to it without tragic self-destruction? A year ago, at COP26 in Glasgow, China and the United States signed a joint declaration to strengthen climate cooperation and respect the limits set by the Paris Agreement over the next decade. The initiative was announced by the Chinese special envoy for the climate, Xie Zhenhua, and by the American counterpart, John Kerry. As superpowers, China and the United States have international responsibilities and obligations according to which the two countries must "think big" and actively coordinate their environmental actions. In the statement, the parties reaffirmed their commitment to "keep the global average temperature rise well below 2 degrees Celsius, continuing efforts to limit it to 1.5 degrees." The two powers also announced new, common goals: Beijing and Washington will implement national action plans to reduce methane emissions, promote renewable technologies and set up a working group that will meet regularly "to advance the multilateral process". What is China doing to achieve this? Is it realistic? And above all, can climate really represent a priority for China, or be placed in a second position with respect to other emergencies on economic conditions? China is showing enormous attention to the pandemic, with tight control of the virus. Will this attention be applied equally to comply with measures against climate change? Nevertheless, Europe, who is facing an energy transition never been so challenging, still needs to answer many questions. What could be the EU role in this dialogue? Can the EU still be the "normative power" it has been for decades?

Programma

Opening

Roberto Pagani, former Science and Technology Counsellor, Consulate General of Italy, Shanghai

Session in English

Prologue: how international energy transition is challenging?

Zha Daojiong, Peking University, PRC (video)

Flora Kan, Team Leader EU-China Energy Cooperation Platform

Sessione in Italiano

Dialogo

Alberto Bradanini, già Ambasciatore della Repubblica Italiana nella Repubblica Popolare Cinese

Giorgio Prodi, Dipartimento di Economia e Management, Università di Ferrara

Moderatore: Roberto Pagani

Conclusione

Catia Bastioli, Presidente Kyoto Club, AD Novamont

Gianni Silvestrini, Direttore Scientifico Kyoto Club

WEDNESDAY 9

NOVEMBER

14:00 -

15:30

Diotallevi 1 Room
South HallCircular
Economy Value
Chains
[Click here](#)

Separate collection of urban textile waste

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & UNICIRCULAR-UNIRAU (Union of used clothing collection, recycling and reuse companies)

Italian municipalities will be obliged to guarantee the separate collection of urban textile waste from 1 January 2022, in continuity with the supply chain that has been structured spontaneously in the last 20 years. A future EPR scheme will be able to guarantee the necessary resources to reach the most important collection, reuse and recycling targets, contributing to an industrial evolution of the current post-consumer supply chain, especially in the parts where there are the most critical issues. Today, almost a year after the establishment of the obligation of separate collection, an EPR system is still awaited. Where are we? What are the weak links of supply chain on which to intervene? In this context, the publication of "European strategy for textiles", political document with no normative value, will give a reference framework within Directives, Regulations and national normative will be structured in subsequent times. The strategy will deal in a broad way with sustainability and circularity of the textile sector, from the eco-design of products to production, from consumption models to the different types of products relating to textiles (fashion, technical clothing, home textiles, hospitality textiles, furnishing textiles, etc.), up to the management of urban textile waste. The conference intends to focus in particular on this last specific and limited aspect.

Session chair

Andrea Fluttero, EPR models expert and UNIRAU (Union of used clothing collection, recycling and reuse companies)

Programme

Introduction

Andrea Fluttero, EPR models expert and UNIRAU (Union of used clothing collection, recycling and reuse companies)

The municipalities owners of the municipal waste collection private

Filippo Brandolini, UTILITALIA (Italian federation of energy, water and environmental services)

Franco Bonesso, ANCI (National Association of Italian Municipalities)

Specialized collectors

Carmine Guanci, Alliance of Cooperatives

Karin Bolin, Humana People to People

Companies of the selection

Carmine Esposito, F.LLI ESPOSITO

Recycling Industry

Fabrizio Tesi, ASTRI Italian recycled textile association

The vision of the future actors of epr schemes

Mara Chilosi, Retex.green

Discussion and closure

Carlo Zaghi, Directorate General Circular Economy (EC), Division III - Supervision of waste management planning and traceability, Ministry of Ecological Transition

WEDNESDAY 9

NOVEMBER

14:00 -

17:00

Diotallevi 2 Room
South Hall

Blue Economy

[Click here](#)

Commit to the Mission Charter to contribute to a healthy “pollution free” MED

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee, BlueMed GSOs, Federchimica-PlasticsEurope Italia, Conference of Peripheral Maritime Regions (CPMR), National Research Council of Italy (CNR)

The Mission *Restore our Oceans and Waters by 2030* provides a holistic and coherent framework for developing a systemic approach to protect and restore marine and freshwater ecosystems and biodiversity, to prevent and eliminate pollution of our ocean, seas and waters, and to make the sustainable blue economy carbon-neutral and circular. The Mission launched four Lighthouses in different European Seas and River basins to achieve these objectives. The one on the Mediterranean sea is addressed to develop and deploy transformative innovative solutions across the whole MED basin, to ensure prevention and reduction of contamination by 50 and 30% by 2030 starting from plastic pollution and beyond. This can be achieved by connecting and structuring existing initiatives, activities and a whole portfolio of ongoing projects; deploying, disseminating and upscaling solutions and mobilising relevant actors. Local business, citizens and local policy makers, can make this happen and they are all invited to participate and engage to become active players in this process. Therefore, to express and showcase their willingness to actively contribute to a successful implementation of this Mission and its related Mediterranean lighthouse, they are also invited to endorse the Mission Charter.

This event is aiming at engaging key Mediterranean stakeholders to support the structuring of the necessary MED innovation ecosystem, which is key for the effective deployment of the Mission Lighthouse and its related Charter.

Session Chairs

Sigi Gruber, Active Senior Advisor - European Commission

Maria Garcies, CPMR Intermediterranean Commission

Lorenzo Bottinelli, President Federchimica-PlasticsEurope Italia

Fedra Francocci, CNR IAS

Programme

Facilitation by Fedra Francocci, CNR IAS

14.00 Introduction by the Chairs

Greetings

Vincenzo Colla, Councillor for Economic Development, Green economy,

Employment and Continuing Education of Emilia-Romagna Region

14.20-15.20 Roundtable: ***Building on prior political commitments for basin-scale cooperation, scaling it up to achieve the Mission Lighthouse targets at local/territorial level by involving Regions and Member States***

Session Moderator:

Sigi Gruber, active Senior Advisor - European Commission

Participants:

Alessandra Sensi (UfM); Fabio Fava (BlueMed); Leonardo Manzari (WestMed); Lodovico Gherardi (EUSAIR), Maria Garcies (CPMR IMC & Dialogue4Innovation project), Francesca Biondo/Stefania Valentini (FEDERPESCA); Mario Dogliani (SDG4MED), Stefania Manca (Municipality of Genoa)

15.20 Q&A session

15.30-16.20 Session Chairs:

Maria Garcies, CPMR-IMC

Lorenzo Bottinelli, President Federchimica-PlasticsEurope Italia

15.30-16.20 Roundtable: ***Structuring and leveraging existing capacities, finance sources and networks***

Moderator:

Maria Garcies, CPMR-IMC

Participants:

Fedrica Bruni, BUSINESSMED

Pol Rovira de Lataillade, SwitchMed

Milena Marzano, Global Alliance for Skills

Apulia Region

Susanna Albertini, EUBioNet

Marina Chiota, Provincia di Latina

Selenia Izzo, 365 BlueLine

16.20 -16.40 ***Main instruments to avoid marine littering and to develop a circular economy: proposals and experiences of the plastic industrial Associations within the Mediterranean basin***

Moderator: Lorenzo Bottinelli, President Federchimica-PlasticsEurope Italia

Participants: the main industrial plastics associations of the Mediterranean countries

16.40 Q&A session

16.50 ***The Charter for the Mission "Restore our Ocean and Waters by 2030"***

John Bell, Deputy Mission Manager & Director of Healthy Planet, DG Research & Innovation

17.00 Closure by Sigi Gruber and Fedra Francocci

WEDNESDAY 9
NOVEMBER

14:00 -
17:30

Neri 2 Room
South Hall

**Policies and
Regulations**
[Click here](#)

Technical Seminar: Waste management and new regulations 2022

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Edizioni Ambiente and the Magazine "Rifiuti - Bollettino di informazione normativa"

REGISTRATIONS CLOSED

The legislative dynamism that shapes waste management can sometimes risk disorienting companies and Public Administration. Once again, this year, the Magazine "Rifiuti-Bollettino di informazione normativa" offers the usual overview of the most important legislative and regulatory innovations that, in the course of 2022, have been added to a complex operational reference scenario. The outlining of new developments, however, also in this edition of Ecomondo, does not preclude an in-depth examination of topics that, although not recent, have reached a certain degree of complexity of application over the years.

Therefore, the necessary in-depth studies that the complexity of the discipline always requires are also carried out.

Session Chair

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

Programme

14.00-14.30 Participants' accreditation and beginning of the activities

14.30-14.45 *Waste management in the light of the circular economy. The point on the End of Waste decrees*

Silvia Grandi, General Director Circular Economy -Ministry of Ecological Transition

14.45-15.00 *Dm 152/2022 on the End of Waste of construction and demolition waste*
Daniele Salvatori, Arpae Emilia Romagna

15.00-15.15 *Putting the entity "on probation" in proceedings pursuant to Legislative Decree 231/2001: How to navigate after the "no" of the Supreme Court's Joint Sections*
Gabriele Taddia, Lawyer

15.15-15.30 *Backfills and their management between the concepts of waste and soil*
Loredana Musmeci, Chemist

15.30-15.45 *The land reclamation procedure of contaminated sites between acceleration and simplification in the light of recent regulatory changes*
Andrea Sconocchia, Arpa Umbria

15.45-16.00 *Actions against environmental damage: the new formats for requesting state intervention and the activities of SNPA as a tool for the surveillance of the land*
Paola Di Toppa, ISPRA

16.00-16.15 *The preparation for re-use and the administrative discipline to legitimately conduct it*

Paola Ficco, Lawyer - Environmental jurist - Director of the magazine "Rifiuti - Bollettino di informazione normativa"

16.15-16.30 *The PNRR and the DNSH (Do Not Significant Harm) principle: the support provided by ISO 14001 and EMAS in the waste sector*

Andrea Sillani, AICQ-SICEV Certified Environmental Auditor

16.30-16.45 *The RENTRI and the state of the art on computerised waste traceability*

Daniele Gizzi, President of the Italian Register of Environmental Operators

16.45-17.00 *Computerised waste traceability: a practical demonstration*

Daniele Bagon, Register of Environmental Operators - Regional Section of Liguria

17.00-17.15 *The Carabinieri Command for Environmental Protection*

Enrico Risottino, Lt. Col. in the Carabinieri - Commander Operational Department for Environmental Protection and Ecological Transition of Venice

17.15-17.30 *The environmental questioning and its value for the criminal court*

Conclusions

Pasquale Fimiani, Attorney General at the Supreme Court of Cassation

WEDNESDAY 9
NOVEMBER

14:00 -
18:00

Bio-based Industry
Room D1 pav.

**Waste
Management
and Valorization**
*Conference open to
Papers*
[Click here](#)

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

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Italian Composting Consortium

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

Session chairs

Massimo Centemero, Italian Composting Consortium

Alberto Confalonieri, Italian Composting Consortium

Programme

14.00-18.00 Speeches selected from Call for Papers

Studio degli effetti del compost sulla comunità microbica del suolo per migliorare la salute delle piante

S. Nigris* **, T. Bonato***, W. Zanardi***, B. Baldan* **; *Dipartimento di Biologia, Università degli Studi di Padova, ** Centro di Ateneo Orto Botanico, Università degli Studi di Padova, ***S.E.S.A. Spa

Le sfide della biopiattaforma di Sesto San Giovanni

D. Scaglione*, *Gruppo CAP

Risultati operativi di produzione di biogas da FORSU

P.P. Cella Mazzariol*, G.F. Galanzino*, P. Pitardi*, E.V. Ghiggini*; *Gruppo Entsorga

Evaporation to make the digestate from anaerobic digestion reusable

C. Del Piccolo*; * VEOLIA WATER TECHNOLOGIES ITALIA

Alimentare soluzioni per il fabbisogno energetico nazionale: il caso Easy Energia Ambiente

A. Massone*, P. Rinaldi**, E. Colpani*; *Anaergia, **Easy Energia Ambiente

Digestato da FORSU: valutazione della stabilità di nuovi materiali fertilizzanti

E. Sinisgalli*, M. Soldano*, M. Garuti*, S. Piccinini*; *CRPA

L'utilizzo del compost alla luce degli obiettivi del green new deal europeo

G. Chilosi*, M. Jarasevic*, A. Catalani*, C. Morales Rodriguez*, V. Petroselli*, A. Vannini*, R. Mancinelli*, G. Custodi**, D. Cecili**, M. Sganappa**; * Università degli Studi della Tuscia, ** Acea Ambiente

Upcycling di fanghi agroindustriali: l'innovativa tecnologia B-Plas

A. Kiwan*, D. Pirini*, C. Torri**, G. Pagliano*, E. Torricelli*, A. Bassi*, D. Collini*; *B-Plas srl, ** Università di Bologna

Utilizzo in orticoltura di Ammendante Compostato Misto

P. Sambo*, C. Nicoletto*, T. Bonato**, W. Zanardi**; *DAFNAE - Università degli Studi di Padova, **S.E.S.A. Spa

Carbond: calculation of the sequestration of SOC in soil and enhancing ecosystem services following sustainable agricultural management

C. Loiudice*, G. Carlucci*, T. Berloco*, D. Laterza*, E. Lardo*, A. Fiore*, G. Lorusso*; *AGREEMENT SRL

Digitalizzazione del biometano. Casi studio: biometano 4.0 agricolo e da FORSU

G. Fusillo*, P. Previati*; *LOGOS ITALIA S.r.l. (Mendelsohn)

ZEOWINE ZEOLite and WINERY waste as innovative product for wine production

D. Manzi*, G. Masciandaro**, S. Doni**, C. Macci**, C. Masini*, G. Mattii***, E. Cataldo***; *DN360, ** CNR IRET, ***UNIFI

Poster Session

WMV3 – 1 *Modello circolare applicato ai biocarburanti, digestione anaerobica e biometano*

A. Caramia*; *Bureau Veritas Italia Spa

WMV3 – 2 *Bilancio del carbonio biogenico in impianti di digestione anaerobica*

P.P. Cella Mazzariol*, G.F. Galanzino*, P. Pitardi*, E.V. Ghiggini*; *Gruppo Entsorga

WMV3 – 3 Best practices for reducing costs of anaerobic digestion

O. Ellis*; *Biogasworld

WMV3 – 4 Water wash upgrading technology to convert wastes in RNG: example of Madrid

N. Hocquet*; *Greenlane Biogas

WMV3 – 5 Impianto di digestione anaerobica per produzione di biometano e compostaggio rifiuti organici

S. Margani*, P. Di Iorio*, D. Amadio*, F. Santini*, F. Pantano*; *Cogesa Spa

WMV3 – 6 Il compostaggio di comunità, la soluzione ottimale dal punto di vista economico e ambientale

S. Margani*, P. Di Iorio*, D. Amadio*, F. Santini*, F. Pantano*; *Cogesa Spa

WMV3 – 7 Compostable Bioplastics - recent developments in standards and certification

E. Miceli*; * DIN CERTCO

WMV3 – 8 La trasformazione dei rifiuti in fertilizzante organico: l'economia circolare per privati e PA

T. Pardi*, V. Mori*, L. Mori*, *BioXplosion Srl

WMV3 – 9 Anaerobic Codigestion of tomato pomace and buffalo slurry

E. Santangelo*, M. Cali**, E. Rossi**, R. Scalella**, N.C. La Mantia**, A. Chiariotti**, *CREA Research Center for Engineering and Agro-Food Processing, **CREA Research Center for Animal Production and Aquaculture

WEDNESDAY 9
NOVEMBER14:00 -
18:00Global Water Expo
Room D1 pav.**Water
Management
and Valorization**
*Conference open to
Papers*
[Click here](#)**Zero Polluted and Circular Water - Concerning pollutants (PFAS and persistent mobile chemicals, microplastics, AMR): occurrence, fate, health and environmental risk management**

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Italian National Institute of Health, Legambiente, Marche Polytechnic University, Utilitalia

CALL FOR PAPERS

Per- and polyfluoroalkyl substances (PFAS) and other so called persistent, mobile (PM) substances, as well as other contaminants of emerging concern, are being recognized as serious threats to the safety of water resources. The way towards a zero pollution, toxic-free environment need knowledge and know-how about analytical methods and environmental chemistry, source detection, transport and fate, preventive measures, treatment technologies and proper legislation. The workshop will present the current scenario and state-of-the-art solutions within the context of emerging technologies and policy mechanism.

Session Chairs

Luca Lucentini, Ecomondo STC and Italian National Institute of Health
 Andrea Minutolo, Ecomondo STC and Legambiente (Italian environmental association)

Francesco Fatone, Ecomondo STC and Marche Polytechnic University

Programme

14.00-14.10 Introduction by the Chairs

14.10-14.25 *There isn't One Health without One Water*

Luca Lucentini, Italian National Institute of Health (TBC)

14.25-14.40 *The zero-pollution challenge in Horizon 2020 and Horizon Europe*

Giulio Pattanaro, Research Programme Administrator, REA.B3 Biodiversity, Circular Economy and Environment

14.40-14.55 *Establishing a zero-pollution circular economy: an overview of the Horizon2020-Green Deal project PROMISCES*

Julie Lions, BRGM (France) – Horizon2020 PROMISCES Project Coordinator

14.55-15.10 *Persistent chemicals and contaminants of emerging concern: the experience of Regione Piemonte as Italian frontrunner in PFAS regulation*

Angelo Robotto, General Director ARPA Piemonte

15.10-15.25 *Pilot and full scale PFAS removal in urban water cycle technologies*

Edoardo Slavik, Coordinator of the research project PFAS Remover

15.25-15.40 *Projects for the quantification of plastics and emerging contaminants in surface water of Po river catchment*

Irene Ingrando and Elena Barbieri, Po river District Basin Authority

15.40-15.55 *Microplastics in lakes and urban water infrastructures: the Life Blue Lakes*

Andrea Minutolo, Legambiente
 Stefania Gorbi, Lucia Pittura, Anna Laura Eusebi e Serena Radini, Marche Polytechnic University

15.55-16.10 *Effect-based monitoring of water and sludge*

Giorgio Bertanza and Roberta Pedrazzani, University of Brescia

16.10-16.25 *CECs and Safety and risk management plans in urban water cycle: case studies*

Enrico Veschetti, Representative of Italian National Institute of Health

Speeches selected from the Call for Papers

16.25-16.35 *Heat treatment of PFAS in liquid matrices*

Mantovani M. (a), Zanetti N. (a), Beltrame D. (b), Zerlotti M. (b), Della Zassa M. (a), Canu P. (a, c)

(a) K-INN Tech s.r.l., Spin Off of the University of Padua (b) Acque del Chiampo S.p.A., Arzignano (VI) (c) Department of Industrial Engineering, University of Padua

16.35-16.45 *PROMISCES: convenient PFAS analysis in complex matrices*

Marco Lazzazzara, Alessandro Frugis, Giancarlo Cecchini, Alessandro Filippi - Acea Elabori SpA, Acea Group

16.45-16.55 *Range of solutions for the management of the solution from PFAS in the subsoil*

Marcello Carboni, REGENESIS

16.55-17.05 *New integrated tools for monitoring the quality of groundwater*

Desdemona Oliva, CAP Group

17.05-17.15 *Development of a profitable methodology for the determination of microplastics in water intended and intended for human consumption*

Gioia V., Lazzazzara M., Castellani M., Filippi A., Frugis A., Cecchini G. - Acea Elabori SpA, Acea Group

17.15-17.25 *Acque Borate - optimization of the treatment and product recovery process*

Cinzia Mazzara and Antonino Patania, Eni Rewind S.p.A.

17.25-17.35 *O3 in wastewater purifiers: a new vision towards better performance and lower costs*

Riccardo Calvi, Pier Luigi Radavelli, SIAD Società Italiana Acetilene e Derivati SpA

17.35-17.50 Discussion and conclusion

POSTER SESSION

WT MV2 – 1 *Grey water footprint is a tool for assessment of Groundwater Chemical Pollution?*

Serio Francesca, Imbriani Giovanni, De Donno Maria Antonella, Department of Biological and Environmental Sciences and Technologies, University of Salento, Prov. le Lecce-Monteroni, 73100 Lecce, Italy

WT MV2 – 2 *Treatments of water contaminated by organic dye treated with carbon nanotubes*

De Luca Pierantonio, Macario Anastasia, University of Calabria

WT MV2 – 3 *Black Sea: Diagnostic pollution of the Black Sea. Applicazione del modello DPSIR per la formulazione di proposte di miglioramento dell'area del Mar Nero*

N. Bertolini - ambiente S.p.A., M. Mannocci - ambiente S.p.A.

WT MV2 – 4 *Sviluppo di un innovativo processo di rimozione del boro con lisciviato di ceneri pesanti*

Carlo Limonti*, Giulia Maria Curcio*, Francesco Marchio**, Alessio Siciliano*, * Università della Calabria, Rende (Cosenza), ** Econet srl, Lamezia Terme (CZ)"

WT MV2 – 5 *TETI - TECnologie innovative per il controllo, il moniToraggio e la sicurezza in mare*

David Giraldi; Prof. Antonio Mazzola; Simone Panfiglio Ambiente S.p.a. ; Università degli studi di Palermo; NAVTEC

WT MV2 – 6 *Merging The Circular Economy with The Blue Economy*

Christopher J Rochfort - The Centre for Organic Research & Education (CORE)

WEDNESDAY 9
NOVEMBER

14:30 -
17:00

Tiglio 2 Room A6
Pav

**Agri-food,
Forestry and Bio-
based Industry**
[Click here](#)

Biorefineries for local regeneration: state of art and critical issues

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Italian Cluster of Circular bioeconomy SPRING

Shifting from non-renewable fossil raw materials and minerals to circular bio-based production processes is essential to reach the EU's climate targets as set out in the European Green Deal. Towards this goal multi-product biorefineries are key elements to improve the efficiency of biomass utilization and to boost resource efficiency and waste prevention, as well as recycling and circularity. According to some estimates, approximately 300 biorefineries will need to be deployed in Europe by 2030 in order to meet the growing EU market demand in this sector. The bioeconomy represents one of the most important sectors of EU intervention to stimulate growth in rural and coastal areas and for the diffusion of sustainable solutions. In recognition of the strategic value of the bioeconomy, the Council of the European Union decided to adopt the regulation establishing the Circular Bio-based Europe Joint Undertaking (CBE JU), one of nine European partnerships, which will succeed the BBI JU. Despite the strategic value of this sector, which is proving to be able to regenerate brownfield sites, create new jobs, and create bioproducts that do not impact ecosystems, the biobased industry is facing many challenges such as the impossibility of reusing certain waste streams, the need for significant and risky investments for the industrial scale-up, the lack of a regulatory and policy framework boosting the sector, etc. The conference aims to deepen the strengths, priorities and critical issues of the sector.

Session Chair

Mario Bonaccorso, Cluster Spring Director

Program

14.30 **Welcome**

Introduction by the Chair

14.40 ***Supporting the bio-based industrial sector***

Danilo Porro, MUR delegate Cluster 6 Horizon Europe

Luca Pagetti, Head of Startup Growth Financing Department at Intesa Sanpaolo Innovation Center (TBC)

Cristina Prandi, Professor and Vice Rector for Research – UniTO

Laura Campanini, Head of Finance and Local Public Services Intesa Sanpaolo Research Department

15.10 ***Emerging sustainable technologies and industrial scale-up***

ENVIRONMENT PARK – Management and potential valorization of bioplastics separated from the OFMSW

Paola Zitella, Manager of Green Chemistry area, Environment Park

OHOSKIN - Sustainable, vegan leather alternative from oranges and cacti

Adriana Santanocito, Ohoskin CEO

PLANTAREI BIOTECH – Plants and food residues in cosmetics and medicines
Elena Sgaravatti, Plantarei Biotech CEO

REWOW - From waste oils to bio-based polymers for high value-added sectors
Antonino Biundo, Rewow CEO

TERRANEXT – Bioeconomy Accelerator
Andrea Beretta, Head of startup & investment Cariplo Factory

15.50 Panel Discussion: *Biorefinery for local regeneration, challenges and opportunities*

Davide Chiuch, Engineering Director, Gruppo CAP
Giacomo Rispoli, Senior Executive Director Waste To Chemical Nextchem
Novamont Representative (TBC)
Stefano Carosio, Executive Director STAM

16.30 Conclusion

Laura D'Aprile, Head of Department for Ecological Transition and Green Investments, Italian Ministry for Ecological Transition (TBC)
Luca Annibaletti, coordinator of the Business Crisis Unit, Italian Ministry of Economic Development (TBC)

WEDNESDAY 9
NOVEMBER

14:30 -
17:30

Ravezzi 2 South
Hall

**Circular
Economy Value
Chains**
[Click here](#)

Participatory circular economy initiatives in Europe and Italy

Language: Italian

Organized by: Technical Scientific Committee of Ecomondo, ENEA and ICESP

The theme of resilience is even more relevant due to the recent crises, both the pandemic and the conflict in Ukraine. Ensuring the security of resources supply, that also lead to financial stability for businesses and families, become as important as urgent, in order to guarantee sustainable growth and citizens well-being through innovation, eco-design, skills complementarity and expertise. In this sense, the actions envisaged in the European Circular Economy Action Plan (CEAP, March 2020) are the reference for the initiatives and strategies of the member Countries. All actors are called to build a new economic model that requires integrated governance, research and innovation with a multidisciplinary approach, investments and incentives, procedural simplifications, market creation and cultural change. Important elements of the circular economy (CE) are the participation and collaboration between actors that can be engaged through networks and hubs, creating knowledge, dialogue, awareness and trust. Furthermore, it is essential to collect and disseminate good practices in order to foster winning solutions along the supply chains and in the cities/territories.

The multidisciplinary approach and the dissemination of good practices (GPs) can be the driving force and inspiration for the activation of transition paths to CE and ICESP implements the Italian GPs database (about 200 GPs), available on www.icesp.it. The GPs related both to supply chain and territorial approach, are reviewed by a specific committee and then published on ICESP web site and, in parallel, sent to ECESP. GPs are selected according to the following criteria: degree of innovation, replicability, maturity, quantification of impacts.

The conference will be an opportunity to explore current activities and ICESP GPs, in line with Italian and European initiatives, highlighting the perspectives for supporting the transition in a systemic view.

Session chairs

Roberto Morabito, Director of the Department for Sustainability, ENEA
Giulia Lucertini, IUAV University, representing the ICESP Coordinators Committee

Programme

14.30-14.50 Introduction by the chairs

Initiatives in Europe

14.50-15.10 *European Circular Economy Action Plan progress*

Paola Migliorini, European Commission, DG Environment for Sustainable Production, Products and Consumption Unit

15.10-15.30 *ECESP and leadership group on "network and governance"*

Ladeja Godina Košir, Coordination Group of the European Circular Economy Stakeholder Platform (ECESP)

Initiatives in Italy

15.30-15.50 *The circular transition of value chains*

Giacomo Vigna, Directorate General for Industrial Policy, Innovation and Small and Medium-Sized Enterprises, MISE

15.50-16.10 *Role of technical standardization for the circular transition*

Elena Mocchio, Innovation Division, UNI

16.10-16.30 *ICESP in the Italian circular economy context*

Grazia Barberio, ENEA and ICESP technical coordinator

16.30-16.50 *Multidisciplinary approach and ICESP good practices*

Alessandra De Santis, Economicircular.com and co-coordinator of the ICESP WG6

16.50-17.10 *Circular Economy national strategy*

Silvia Grandi, Directorate General for Circular Economy, Italian Ministry of Ecological Transition

17.10-17.30 Discussion and closure

WEDNESDAY 9
NOVEMBER

14:30 -
17:30

Workshop Room
B1 pav.

**Waste
Management
and Valorization**
[Click here](#)

How the National Recovery And Resilience Plan (NRRP) will change the municipal waste management: an outlook on the future of the Italian circular economy

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Utilitalia, Italian Composting and Biogas Consortium

The national recovery and resilience plan (Mission 2 Measure 1) has provided for a specific investment line (1.1) that allocates 1.5 billion euros for the enhancement of separate waste collection, the revamping and construction of new treatment plants for separately collected municipal waste, and innovative plants for the treatment of waste still on fringes of circular economy. Through the discussion among the various subjects involved (institutions, industry associations, waste operators), the conference aims to make a first assessment of the initiative, evaluating how local authorities and companies have seized the opportunities of the NRRP, and how the projects admitted to the funding will shape the future of municipal waste management in our Country.

Session chair

Alberto Ferro (Coordinator of Utilitalia Commission on collection, recycling and EPR schemes)

Programme

14.30 *Introduction and coordination by the Chairman*

Alberto Ferro (Coordinator of Utilitalia Commission on collection, recycling and EPR schemes)

14.45 Institutional speakers

Laura D'Aprile, Head of Department of Ecological Transition and green investments, Italian Ministry of Environmental Transition

Valeria Frittelloni, Head of National Center for Waste and Circular Economy, Italian Institute for Environmental Protection and Research

Lorenzo Bardelli, Director of Environment Division of Italian Regulatory Authority for Energy, Networks and Environment

15.30 *Closing the loop and innovation in waste management: the expectations of the sector in the face of NRP instruments*

Luca Mariotto, Director Environmental Sector of Utilitalia

Massimo Centemero, Director of the Italian Compost and Biogas Consortium

Luca Ruini, CONAI Chairman

16.00 *The word from the projects that participated in the PNRR calls for proposals*

Domenico Ruggiero, Sole Director ASIA Naples

Nicola Ciolini, President ALIA

Andrea Bossola, General Director AMA Rome

Alessio Ciacci, Sole Director CERMEC

Claudio Casale, Plant and Civil Engineering Manager IRET I

17.00 *Conclusions*

Lella Miccolis, President of the Italian Compost and Biogas Consortium

Filippo Brandolini, Vice President of Utilitalia

WEDNESDAY 9
NOVEMBER

15:00 -
18:00

Neri 1 Room South
Hall

[Click here](#)

Language: Italian

WEDNESDAY 9
NOVEMBER

15:30 -
18:00

Mimosa Room B6
Pav

**Research and
Innovation**

[Click here](#)

Pitch session with EU funded projects with sustainable solutions

Language: English

Organized by: Ecomondo and Key Energy Scientific Technical Committees & European Commission

The pitch session builds up on the framework that composes the Pillar III of Horizon Europe, the EU's key funding programme for research and innovation. Pillar III focusses on supporting the development of disruptive and market-creating innovations and on enhancing European innovation ecosystems. The pitch session model echoes this strategic approach and gives the selected beneficiaries the opportunity to present their ideas in front of an expert jury and interested audience.

The companies will pitch their research and business ideas to selected experts and investors coming from the private sector. A feedback session by jury that is composed of selected experts will follow with the purpose of highlighting the added-value of the proposed solutions from a technological and business perspective. The idea is to bring scientists, managers and entrepreneurs together to discover new innovative companies in the field of green technologies. The ECOMONDO audience is also invited to join the discussion and to bring in their input.

Session Chairs

Francesco Matteucci, European Commission

Programme

CINEA, REA and EISMEA, three Executive Agencies of the European Commission, will invite to pitch funded SMEs and projects working on energy- and environmental-related topics and renowned investors and experts as jury members.

Each SME will pitch for 5 minutes.

10 minutes will be dedicated for feedback and discussion given by a jury composed of experts, investors and audience.

WEDNESDAY 9
NOVEMBER

16:00 -
18:00

Diotallevi 1 Room
South Hall

**Circular
Economy Value
Chains**
[Click here](#)

Textile waste prevention and circular textiles: the role of cities and regions and the potential of regional policies

Language: English

Organized by: ACR+ Association of Cities and Regions for Sustainable Resource Management

The textile sector is a resource-intensive sector with significant impacts on the climate and environment and is identified as a key value chain in the EU Circular Economy Action Plan. The upcoming requirement for separate collection of textile waste in the EU, combined with implementation of EPR schemes and principles and the recent achievements in sorting and recycling technology empower regions and cities with an important role in facilitating the transition towards a more resilient, circular, and sustainable way. This session will discuss challenges faced by cities and regions as well as strategies and solutions to tackle them, and how they can interact effectively with national and EU strategies.

Session Chair

Francesco Lembo, ACR+

Programme

16.00-16.10 Registration

16.10-16.25 *Introduction. Cities and Regions at the forefront of textile waste prevention*

Francesco Lembo, ACR+

16.25-16.40 *Delivering the EU Strategy for Sustainable and Circular Textiles at local level*

Luca Menesini, Mayor of Capannori and CoR Rapporteur on the opinion on the EU Strategy for Sustainable and Circular Textiles

16.40-16.55 *The Circular Fashion Pact to weave a more sustainable future in Catalunya*

Pilar Chiva, Director of Circular Economy Department at Agencia de Residuos de Catalunya

16.55-17.10 *Increasing circularity and sustainability in textiles and empowering local ecosystems: CISUTAC and HEREWEAR cases*

Guy Buyle, Manager EU Research at CENTEXBEL

17.10-17.25 *The UNEP West Asia Sustainable Fashion Academy*

Paolo Marengo, GO4SDGs Regional Coordinator at UNEP West Asia Office
Sarah Asmar, Sustainable Lifestyle Expert at UNEP West Asia Office

17.25-17.45 *The European & the Euro-MED Week for Waste Reduction 2022, waste is out of fashion!*

Serena Lisai, ACR+ and Marta Anglès Masias, MedWaves

17.45-18.00 Q&A and wrap-up

THURSDAY 10 NOVEMBER

THURSDAY 10
NOVEMBER

09:30 -
11:00

Neri 2 Room
South Hall

Research and
Innovation
[Click here](#)

High-level Opening Panel: A Just Transition to Circular Economy in the Southern Mediterranean

Language: English

Simultaneous translation: Arabic, French

Organized by: Ecomondo Scientific Technical Committee & UNIDO

The SwitchMed initiative aims at achieving a circular economy in the southern Mediterranean by changing the way goods and services are produced and consumed. In order to achieve this, the initiative provides tools and services directly to the private sector, supports an enabling policy environment, and facilitates exchange of information among partners and key stakeholders. The initiative was launched in 2013 to speed up the shift to sustainable consumption and production patterns in the Southern Mediterranean, notably through the promotion of circular economy approaches. The programme aims at achieving productive, circular and sharing economies in the Mediterranean by changing the way goods and services are consumed and produced so that human development is decoupled from environmental degradation. Its activities benefit 8 countries in the Southern Mediterranean: Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, Palestine and Tunisia. Through policy development, demonstration activities and networking opportunities, SwitchMed supports and connects stakeholders to scale-up eco and social innovations. This year SwitchMed brings its flagship networking event to Ecomondo, an international expo for circular economy and green technologies gathering public stakeholders, financial institutions and the private sector, to further connect its ecosystem to latest trends and innovations and further nurture a regional enabling environment for the circular transition. Circular Economy represents a great opportunity both for emerging and advanced economies and its general narrative has moved to becoming more in the mainstream. However, a number of barriers exist and hamper its progress. Post-covid recovery plans, energy crisis and global conflicts have exacerbated the use of virgin materials, with the region still relying on material extraction and generally, linear economy. Opening the second day of the SwitchMed Connect and providing a global context for the following thematic conferences, panellists will share their perspectives on the current regional landscape, particularly focusing on those leverage points which can enable a transition to a just Circular Economy in the Mediterranean. The discussions will help convey a genuine picture and understanding of the regional background, depicting multiple intersecting challenges and potential solutions catering to the needs of the private sector and society as a whole.

Session Chairs

Ms. Müge Dolun, Industrial Development Officer at UNIDO

Programme

Welcoming

Ms. Müge Dolun, Industrial Development Officer at UNIDO

Opening statement

Mr. Maciej Popowski, Acting Director-General – Directorate General Neighbourhood and Enlargement Negotiations (DG NEAR) (online)

Intervention from UNIDO

Mr. Stephan Sicars, Director of the Division of Circular Economy and Environmental Protection at UNIDO

Intervention from UNEP/MAP

Mr. Ilias Mavroeidis, Programme Management Officer at UNEP/MAP

Intervention from UfM

Mr. Almotaz Abadi, Deputy Secretary General for Water, Environment and Blue Economy at UfM (online)

Intervention from UNECE

Ms. Elizabeth Tuerk, Director of the economic Cooperation and Trade at UNECE (online)

THURSDAY 10
NOVEMBER

09:30 -
11:30

Cedro Room West
Hall

Financing,
Education and
Communication
[Click here](#)

The World Bank & other MDBs: Renewable Energy Projects, Technologies & Opportunities in Emerging Markets

Language: English

Organized by: World Bank, ADB, AfDB, EBRD, EIB, IADB - MAECI, MEF & Italian Trade Agency

This initiative, jointly promoted by the Italian Ministry of Foreign Affairs and International Cooperation and the Italian Ministry of Economy & Finance, is executed by the Italian Trade Agency. Its goal is to foster the mutual knowledge between sector experts of the main MDBs and top Italian SMEs, with the aim of strengthening the participation of the latter in projects financed by the major MDBs in this field.

Session Chairs

Liborio Stellino, Deputy Director General for Internationalisation - Italian Ministry of Foreign

Paolo Cappellacci, Italian Ministry of Economy and Finance

Programme

9.30 **Opening Remarks**

Liborio Stellino, Deputy Director General for Internationalisation - Italian Ministry of Foreign

9.35 **Top Projects & Technologies in R.E. in Africa**

Anthony Karembu, Principal Renewable Energy Officer - African Development Bank

9.50 **IADB: main projects and opportunities for R.E. in Latin America**

Juan Paredes, Senior Renewable Energy Specialist - Inter-American Development Bank

10.05 **ADB Main R.E. Projects funded in Asia**

Robert Schoellhammer, head of the European Rep Office - Asian Development Bank

10.25 **EIB Main R.E. Projects In & Outside the EU**

Alessandro Boschi, head of the Renewable Energy Division- EIB

10.45 Question & Answer Session

Moderated by: Matteo Masini, Italian Trade Agency ITA/ICETHURSDAY 10
NOVEMBER

09:30 -

17:00

Tiglio Room A6
Pav**Waste
Management
and Valorization**
*Conference open to
Papers*
[Click here](#)**Operational and assessment tools for the management of materials and energy in a circular economy**

Language: Italian

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

CALL FOR PAPERS

One of the structural reforms of our Country, subsequent to the implementation of the National Recovery and Resilience Plan, is the National Waste Management Programme, in the minds of Ministry seen as one of the coordination tool for territories, in order to allow them a targeted plan, based on own specific needs. Besides the level of public policies, it is becoming more and more determinant, also for the individual companies, to verify the compliance of own activities to the principles of circular economy, to stand on the market as active players in the ecological transition and improve their competitiveness.

In this seminar, the contributions of institutions, companies, research bodies are accepted, which present more sustainable management approaches, good practices of prevention and resource savings, environmental and socio-economical assessment, in relation to different productive activities and services.

Session Chairs

Fabrizio Passarini, STC Ecomondo, Università di Bologna

Lucia Rigamonti, Politecnico di Milano

Danilo Bonato, Direttore Generale Erion

Programme

9.30-9.40 Introduction by the Chairs and a short summary on the papers presented through posters

9.40-10.25 Invited lectures

9.40-9.55 *Project INTERREG "RESET - REsearch centers of Excellence in the Textile sector"*

Besnik Mehmeti (Comune di Prato)

9.55-10.10 *Project LIFE "EBP - Ecofriendly multipurpose Biobased ProduSTC from municipal biowaste"*

Simone Solaro (Hysytech srl)

10.10-10.25 *Assessment tools for company environmental performances; focus on the role of product end of life*

Isabella Capurso (Interseroh TSR)

10.25-13.00 **Presentations selected from the call for papers**

10.30-10.45 *Piani di azione a supporto dei servizi per l'economia green e circolare*

Valeria Stacchini (Città metropolitana di Bologna)

10.45-11.00 *Il ruolo del green public procurement per favorire il riciclo e il recupero*

Mascioli Alessandra, Peretti Cristina (CNR - IIA)

11.00-11.15 *Analyzing the role of Green Public Procurement for a sustainable Public Administration. Limits and opportunities in the Italian national ecological transition*

Crovella, T., Lagioia, G., Paiano, A. (University of Bari Aldo Moro)

11.15-11.30 *Analysis of waste properties for the selection of components of the Waste Management Center*

Džafer Dautbegović, Darko Petković (University of Zenica), Mirsada Hasanbašić (ALBA Zenica)

11.30-11.45 *Waste management in Algeria, state of the art and opportunities*

Mohamed Karim Ouamane (National Waste Agency Algeria)

11.45-12.00 *Ambasciata Rifiuti Zero*

Rodrigo Sabatini, Taina Wanderley (Istituto Lixo Zero Brasil e Ambasciata d'Italia a Brasilia)

12.00-12.15 *The use of hyperlocal social network technology in micro regions to promote SGDs in cities*

Caetano Seleme Zagonel, Marcelo Crivano Lopes (Smart Citizen, Brasil)

12.15-12.30 *Big data processing, visualization and analysis of waste management at province scale for the circular economy*

Ehsan Liaghati, Giorgio Bertanza, Marta Domini, Reza Vahidzadeh (Università degli Studi di Brescia), Alessandro Corsini, Chiara Lanzini (Confindustria Brescia)

12.30-12.45 *Standard di riferimento per l'economia circolare: stato dell'arte e prospettive*

David Giraldi, Patrizia Vianello (Ambiente s.p.a.)

12.45-13.00 *LCA as a tool verify the potential of circular economy in the waste-wastewater-energy nexus*

Giuseppe Mancini (University of Catania), Lida Lombardi (Niccolò Cusano University), Antonella Luciano (ENEA), David Bolzonella (University of Verona), Debora Fino (Polytechnic of Turin)

13.00-14.00 Break

14.00-17.00 **Presentations selected from the call for papers**

14.00-14.15 *Life Cycle Assessment of a Decentralised Approach to Dairy By-product Valorisation: Opportunities for Sustainable Intensification and Circularity*

Eric Mehner, Mentore Vaccari (University of Brescia), Daniele Pizzichini (ENEA Casaccia), Valentina Fantin (ENEA Bologna)

14.15-14.30 *L'auto del domani sarà circolare. Il Caso del Gruppo Sirmax nel mercato automotive*

Massimo Veronelli (Sirmax spa)

14.30-14.45 *La filiera della lavorazione dei metalli preziosi alla prova della transizione ecologica: buone pratiche dal basso per le aziende della Moda del Lusso*
Marco Tortora (Associazione FAIR e BABEL Università di Firenze), Mauro Lombardi (PIN di Prato e BABEL Università di Firenze), Giuseppe Tortora (Associazione FAIR; Ordine degli Ingegneri di Firenze), Francesco Lombardi (Valmet Group Spa)

14.45-15.00 *Aerosols Recycling: The case for the UK with European Implications?*
Anne Laleman (Alpha-Financials Environmental, UK)

15.00-15.15 *Linee guida per la gestione delle terre di fonderia*
Gualtiero Corelli, Roberto Lanzani (Assofond)

15.15-15.30 *Recupero e valorizzazione di alghe infestanti per la produzione di sensori biocompatibili*
Antonella Macagnano, Massimo Mari (CNR - IIA), Carla Mazziotti (CNR - DIITET)

15.30-15.45 *Applicazioni innovative di recupero di materia e energia nei depuratori*
Desdemona Oliva (Gruppo CAP)

15.45-16.00 *Technical aspects in the evaluation of offshore CO2 storage in depleted levels of hydrocarbon*
Romualdo Marrazzo, Francesco Astorri (ISPRA)

16.00-16.15 *Carbon fibers waste recovery via pyro-gasification: Pilot plant testing and LCA*
Luca Ciacci, Fabrizio Passarini, Loris Giorgini (University of Bologna), Cristian Tosi (CURTI S.p.A.)

16.15-16.30 *Analisi LCA del trattamento di rifiuti C&D per la produzione di aggregati riciclati per calcestruzzo*
Andrea Piccinali, Irma Cavallotti, Giovanni Plizzari, Sabrina Sorlini (Università di Brescia), ICA - Società di Ingegneria Chimica per l'Ambiente S.r.l.

16.30-16.45 *The use of the PEF method to valorize the use of recycling material in the textile industry*
Michael Knaute (Green Soluce from CBRE), Alicia Boyano Larriba (European Commission DG Environment), Camille Le Gal, Leila Gimeno (FAIRLY MADE)

16.45-17.00 *Migliorare la sostenibilità ambientale. Il caso dei prodotti gicléeart*
Di Noia A. E., Nicoletti G. M., Cappelletti G. M., Russo C. (University of Foggia)

17.00-17.15 Discussione e chiusura dei lavori

Sessione Poster

WMV2-P1 Biometanazione: una soluzione per i nuovi sistemi energetici / Gianfranco De Feo (Micropyros BioEnerTec GmbH), Leonardo Senatori (Pietro Fiorentini SpA), Raimund Brotsack (Deggendorf Institute of technology)

WMV2-P2 "RIFIUTIAMOCI": diventiamo utenti consapevoli e monitoriamo le nostre abitudini / Matteo Lombardi (Ellequadro Ingegneria srls)

WMV2-P3 Gli obiettivi di riciclo nella pianificazione regionale: il caso della Regione Lombardia / Giorgio Ghiringhelli, Michele Giavini, Elisa Amodeo, Silvia Colombo (ARS ambiente Srl)

WMV2-P4 Il Testo Integrato della qualità del servizio di gestione dei rifiuti urbani (TQRIF) di ARERA / Giuseppe Sbarbaro, Monica Benzi, Stefano Amandolesi (UTILITEAM Srl), Giorgio Ghiringhelli (ARS Ambiente Srl e Università Cattaneo - LIUC)

WMV2-P5 Il Centro dei Riutilizzo come strumento di riduzione rifiuti e educazione al valore della materia / Giorgio Ghiringhelli (ARS ambiente Srl e Università Cattaneo - LIUC), Claudia Colombo, Gianfranco Carraro (AGESP Spa)

WMV2-P6 Smaltimento dei rifiuti urbani durante la pandemia di COVID-19 nelle Marche: produzione e costi pro-capite / Katuscia Di Biagio, Massimiliano Boccarossa, Marco Baldini (ARPA Marche), Jacopo Dolcini (Università Politecnica delle Marche).

WMV2-P7 L'economia circolare per la riqualificazione e l'innovazione dei mercati locali / Marino Cavallo (Città Metropolitana di Bologna)

WMV2-P8 Assessment of PM and Gaseous Macro-pollutants Emissions During Biomass Combustion / Francesco Gallucci, Beatrice Vincenti, Enrico Paris, Adriano Palma, Monica Carnevale, Mariangela Salerno (Council for agricultural research and economics, CREA-IT, Monterotondo - RM), Attilio Tonolo (Ministry of Agricultural, Food and Forestry Policies - MiPAAF)

WMV2-P9 Sustainability tools applied in the videogame sector. ISO 29110/2016 standard in cinic games / Marco Di Mauro, Enrico Cocuccio, Chiara Tabita, Agata Matarazzo (University of Catania), Serena Dal Maso (CINIC GAMES S.R.L. - Firenze)

WMV2-P10 CARBOND: a tool for calculating the sequest of carbon in the soil and enhancing agro-ecosystem services in fruit growing / Lojudice C., Carlucci G. (AGREEMENT SRL, Matera), Berloco T., Laterza D., Lardo E., Fiore A., Lorusso G.

WMV2-P11 Low-cost biogas purification systems: LCA study / Papurello Davide, Peccolo Melissa (Politecnico di Torino)

WMV2-P12 Bio-based binder for furniture: Fibreboard production with microfibrillated cellulose (MFC) as binder / Tassos Kladis, Yun Jin (FiberLean Technologies Ltd - Germany)

WMV2-P13 Digital tool to foster circular economy and sustainably close broken value chains / Pasqualina Sacco, Davide Don (Fraunhofer Italia Research Scarl, Italy), Mateja Dermastia (Anteja, Slovenia), Jon Goriup (VGG.AI, Germany), Michael Keller (School of Engineering and Architecture, Fribourg, Switzerland)

WMV2-P14 Quantification of social performance indicators in a company monitoring energy from renewable sources Carrabino R., Matarazzo A., Arfò S. (Università degli Studi di Catania), Massaro S., Falzone G. (BaxEnergy Italia s.r.l.)

WMV2-P15 Risparmio idrico ed efficientamento energetico, partendo dall'analisi morfologica e topografica del luogo come territorio-ambiente, per un progetto di fattibilità di un resort in area Sub Sahariana / Paolo Mauri, Lorenzo Pessina (Ambiente Spa), Giovanna Rossato (Progetto CMR)

WMV2-P16 Screening tramite drone di una discarica di RSU per la ricerca dei punti di emissione di metano / Giuseppe Tassielli, Bruno Notarnicola, Pietro A. Renzulli, Maurizio De Molfetta, Donatello Fosco (Università degli studi di Bari "Aldo Moro")

WMV2-P17 Materiale di riporto e consumo di suolo: criticità della normativa italiana / Eugenio Capponi, Alessandra Magnani (HPC Italia S.r.l.)

WMV2-P18 Recircle Srl / Marco Di Carlo (Recircle Srl)

WMV2-P19 Retrofitting negli impianti trattamento acque: il reattore MBBR / Andrea Baldini (Sebigas Renewable Energy srl)

WMV2-P20 Technical and economic feasibility analysis of the pilot project in Marsili in Sicily / Federica Marino, Sergio Arfò, Agata Matarazzo (University of Catania), Francesco Italiano, Cinzia Caruso (N TLINK SRL- Valverde - CT)

WMV2-P21 Life Cycle Thinking in the ancient grains of Sicily. The Integra Project / Vittoria Spina, Sergio Arfò, Agata Matarazzo (University of Catania), Carlo Ingrao (University of Bari Aldo Moro), Giuseppe Spina (Studio Associato Agriengineering, Catania)

WMV2-P22 Battery storage technological innovations: study case Baxenergy Ltd Marco Di Mauro, Salvatore Gulina, Antonio Zerbo (University of Catania), Concetta Patania, Simone Massaro (Baxenergy Italia S.R.L., Acireale)

WMV2-P23 Applicazione tematiche ambientali previste dal DNSH nell'ambito della riqualificazione edilizia / A. Della Valle, G. Martinoli (Progetto CMR), P. Colombo, P. Mauri (Ambiente S.p.A.)

WMV2-P24 Reducing foreign dependence in electric energy production? / Francesco Albasser (Studio Ingegneria, Milano)

WMV2-P25 Economic and financial analysis of plants for obtaining energy from hydrogen sources in Sicily / Nicolò Mazzoleni, Sergio Arfò, Alberto Zufalo, Rosario Carrabino, Antonio Zerbo (University of Catania)

WMV2-P26 Economia circolare in agricoltura: Restituire alla terra la fertilità della terra/ Eleonora Campi (Terranova Srl)

WMV2-P27 Development of an Italian Life Cycle Inventory Database of Agri-Food Products (ILCIDAF): a customized model to estimate heavy metals emission / Bruno Notarnicola (Università degli studi di Bari "Aldo Moro"), Luigia Petti, Giuseppe Saija, Alfio Strano, Rosa Di Capua, Francesco Astuto, Manuela D'Eusanio, Nicola Casolani, Teresa Maria Gulotta, Giovanni Mondello, Giacomo Falcone, Antonio Fazari, Gregorio Vono

WMV2-P28 Economica circolare e Biocarburanti: biometano e non solo / Alessandra Caramia (Bureau Veritas Italia Spa)

WMV2-P29 La produzione dei rifiuti e influenza della tariffa puntuale / Ernesto Infusino (Università della Calabria), Roberta Infusino (Libera professionista)

WMV2-P30 Technology to the rescue for a smart and sustainable approach to waste management / Leon Hayes (Taoglas Waste Technologies)

WMV2-P31 PNRR, PITESAI e crisi ucraina, acceleratori per la transizione ecologica / Tiziana Fiorella, Andrea Marega (Partner, Ughi e Nunziante Studio Legale), Cristina Maria Celotto (Associate, Ughi e Nunziante Studio Legale)

WMV2-P32 Projects LIFE RE-SHOES and RE-SKIBOOT: efficient and cost-effective recycling processes for more sustainable sport equipment / Martino Colonna (University of Bologna – RE-SPORT srl)

WMV2-P33 Sistemi di gestione integrata per il recupero dei materiali da Veicoli Fuori Uso abbandonati / Luca Pomili, Alessio Fabrizi (Pomili Demolizioni Speciali Srl)

WMV2-P34 Economia circolare e forme di valorizzazione. Analisi della catena del valore del PET riciclato / Nadia Lambiase (Università degli Studi di Torino - Mercato Circolare)

THURSDAY 10
NOVEMBER

10:00 -
12:30

Diotallevi 2 Room
South Hall

**Sustainable
Remediation and
Regeneration of
Contaminated
Sites**
[Click here](#)

The States General for Soil Health - International session ENGLISH LANGUAGE VERSION

Language: English

**Organized by: Ecomondo Scientific Technical Committee & European
Mission A Soil Deal for Europe, Re Soil Foundation**

According to the 'Caring for Soil is Caring for life' report published by the European Commission in 2020, 60-70% of all European soils are unhealthy due to current management practices, pollution, urbanization, and the effects of climate change: specifically, 25% of soils in southern, central, and eastern Europe are at high or very high risk of desertification, while today's rate of soil reuse is stuck at 13%. The estimated cost associated with soil degradation in the EU exceeds 50 billion euros/year. For these reasons, the health of this valuable non-renewable resource has been identified by the European Union as one of the 5 Missions - A Soil Deal for Europe - launched by the Commission to address science and innovation towards the challenges our society is facing. Soil becomes a key element of the Green Deal to support Europe's growth aimed at achieving zero net soil consumption by 2050. Soil protection contributes to further challenging goals such as reducing greenhouse gas emissions to the atmosphere by 55 percent by 2030 and achieving climate neutrality by 2050. In an increasingly uncertain economic and geopolitical context, in which Europe and Italy are facing a growing scarcity of raw materials, restoring the health of our soils, curbing their degradation and consumption will be crucial to increase our self-sufficiency and support the industrial revitalization of our country and Made in Italy.

Today, in Italy, more than a quarter of the land is degraded and soil consumption causes our country to lose about 2 square meters/second. That's why the National Coordination Group for the Bioeconomy (CNBBSV) of the Presidency of the Council of Ministers, which also comprises MIPAAF, MUR, MISE, MITE, MI; 20 Italian Regions; The Territorial Cohesion Agency; 3 Technology Cluster (Spring, BIG, CL.A.N.), in collaboration with ISPRA, CREA and Re Soil Foundation (founded by University of Bologna, Coldiretti, Novamont and Turin Polytechnic), launches in Rimini the first States General for Soil Health conference, an open, shared and participatory advisory event which aims to set the course for soil regeneration, a non-renewable resource crucial to ensure life on Earth but increasingly at risk. The States General for Soil Health therefore intend to bring together the main national and international stakeholders and experts to draft a programmatic platform aimed at supporting the development of an Italian Soil Strategy, through the analysis of the environmental, economic, legislative and social scenario, of good practices and multidisciplinary and multi-actor existing projects, which are already providing answers in this direction. The States General for Soil Health will take place for the first time on 10 November 2022, with the aim of presenting the European policy framework in the morning session, and the state of the art at national level in the afternoon session.

International morning session

Session Chairs

Catia Bastioli, former member of EC Mission Soil health & food, member of Re Soil Foundation

Roberto Moncalvo, President of Coldiretti Piemonte, Re Soil Foundation Board Member

Programme

10.00 *Welcome*

Italian Ministry of Agricultural, Food and Forestry Policies (TBC)

Catia Bastioli, former member of EC Mission Soil health & food, member of Re Soil Foundation

Fabio Fava, EC Mission Soil health & food Italian vice representative

10.10 **Soil strategy for 2030: Soil in the European policy framework and international agendas**

The Status of soil health – FAO point of view

Lucrezia Caon, Land and Water Officer FAO (Soil Management)

The Status of soil in Europe

Luca Montanarella, Action Leader in SOIL - JRC

Protect soil biodiversity – where are we going

Andrea Vettori, Deputy Head of Unit, Natural Capital, Land use and Management, DG ENVI

Directions for innovation in the CAP

Alessandro Apolito, Capo servizio tecnico Coldiretti

How to implement carbon farming in the EU

Sofia Lilli, Università di Perugia

11.00 **Panel discussion**

Moderated by: Roberto Moncalvo, President of Coldiretti Piemonte, Re Soil Foundation Board Member

Research & innovation in agriculture: best practices and challenges

Pedro Berliner, Emeritus Full Professor, The French Associates Institute for Agriculture and Biotechnology of Drylands

Bram Moeskops, Research & Innovation Manager IFOAM Organics Europe

David Chiaramonti, Full Professor, Polytechnic University of Turin, Department of Energy, member of Re Soil Foundation

Prof. Vladislav H. Popov - Vice-rector Agricultural University of Plovdiv (AUP) and delegate of Bulgaria in the Standing Committee on Agricultural Research (SCAR) of the European Commission

11.45 *Horizon Mission Soil – The PREPSOIL project*

Margrethe Balling Høstgaard, PREPSOIL project manager - DCA, Aarhus University, Denmark

11.55 Q&A

12.10 **Closure (by the chairs)**

THURSDAY 10
NOVEMBER

10:00 -
12:30

Diotallevi 2 Room
South Hall

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THURSDAY 10
NOVEMBER

10:00 -
13:00

Ravezzi 1 Room
South Hall

**Agri-food,
Forestry and Bio-
based Industry**
[Click here](#)

A 2.0 Farm to Fork: regenerative agrifood supply chains, food security and economic competitiveness

Language: Italian

Organized by: Ecomondo STC & Confagricoltura, Federalimentare, ENEA

The decisions related to the agrifood production and processing shall be more and more oriented to ensure, from one side, safer supplies – of agricultural raw materials as well as technical means and competitive energy prices – and, on the other side, the transition towards sustainable productions and processing which represents the most important challenge, today, for the agrifood systems. It concerns key objectives without any possibility of alternatives or contradictions. In this frame the new technologies play an essential role both in the primary and industrial sectors as they allow to meet the future challenges with a modern and innovative vision, aimed at promoting the agricultural production and the development of agrifood systems and at facilitating the sustainability in the industrial processing, the mitigation of the effeSTC and fight against the climate change.

Session Chairs

Maurizio Notarfonso, Federalimentare (The Italian Food & Drink Industry Federation)
Massimo Iannetta, Confagricoltura (General Confederation of Italian Agriculture)

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Session Chairs

Maurizio Notarfonso, Federalimentare (The Italian Food & Drink Industry Federation)
Massimo Iannetta, ENEA

Programme

10.00-10.15 Opening speech
Massimo Iannetta, ENEA

10.15-10.30 Pierre Bascou, EU Commission DG AGRI (Director Sustainability and income support)

10.30-10.45 Denis Pantini Nomisma

10.45-11.00 Giuseppe Blasi, Italian Ministry of Agriculture (TBC)

11.00-12.00 Business case studies of supply chains:

Gianluigi Dileo, Calispa

Marco Nicastro, OP Mediterraneo

Simone Menesello, Fattorie Menesello NaturaOrganica

Guglielmo Auricchio, Gennaro Auricchio SpA

12.00-13.00 Round table with:

Giovanni Toffoli, Presidente Federchimica Assofertilizzanti

Riccardo Vanelli, Presidente Federchimica Agrofarma

Massimiliano Giansanti, Presidente Confagricoltura

Ivano Vacondio, Presidente Federalimentare

Elena Sgaravatti Vice Presidente Federchimica Assobiotech

13.00 Closing remarks

THURSDAY 10
NOVEMBER10:00 -
13:00Noce Room A6
PavCircular
Economy Value
Chains
[Click here](#)**Markets and innovative uses for recycled rubber, a Critical Raw Material for national economy**

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Ministry of Economic Development, ENEA and UNIRIGOM (Assoambiente/sect. Unicircular)

Since 2020, natural rubber has been included in the European list of “Critical Raw Materials”, which are strategic for the economy and the supply market. The rubber that is obtained from ELTs by mechanical treatment remains vulcanised and can therefore only be destined, to limited applications (sports surfaces, modified asphalts, street furniture, etc.) in the form of granules or powder, as “filler”. The possibility of reusing rubber from ELTs in the production of tyre compounds, after a devulcanisation process, is to be preferred because it allows to “close the circle”, but also because it can provide greater stability to the market of alternative uses of ELT granule and powder. Nowadays, innovative, low-energy and environmentally friendly processes have been developed for the use of recycled rubber both in the production of new tyres and for other uses in the automotive and electronics sectors.

In the wake of European initiatives, the Ministry of Economic Development (MiSE) and the Ministry of Ecological Transition (MiTE), with the support of ENEA, have promoted a political and technical table for Critical Raw Materials (CRM), with the aim of strengthening coordination on the issue, enhancing CRMs planning in terms of sustainability of supplies and circularity, and of contributing to the creation of regulatory, economic and market conditions to ensure a safe and sustainable supply of CRMs for Italy, including rubber.

Session Chairs

Andrea Fluttero, President of UNIRIGOM

Claudia Brunori, Head of Efficient Use of Resources Division, ENEA

Programme10.00 -10.15 *Welcome and introduction speech*

Andrea Fluttero, President of UNIRIGOM

10.15-10.45 *Critical raw materials: economic and regulatory framework and initiatives at European and national level*

Claudia Brunori, Head of Efficient Use of Resources Division of ENEA

10.45-11.15 *Valorisation of waste and rubber scraps in terms of circularity*

Fabio Bertolotti, Director of Assogomma

11.15-11.45 *Methods and measurements to characterise materials from rubber recycling*

Franco Cataldo, Actinium Chemical Research srl

11.45-12.45 *Key success stories by rubber recycling companies:*

LIFE GREEN VULCAN: project status updates and new perspectives in rubber recycling for automotive applications

Giuseppe Magistrale, Rubber conversion

Representative of Arkema

Representative of Bridgestone

Representative of Trelleborg

12.45-13.00 *Conclusions*

Giacomo Vigna, Directorate General for Industrial Policy, Innovation and Small and Medium-Sized Enterprises, Ministry of Economic Development

Micaela La Vecchia, Division III "Circular Economy" official and Critical Raw Materials Table coordinator, Ministry of Economic Development

THURSDAY 10
NOVEMBER

10:00 -
13:00

Reclaim Expo
Room C1 Pav.

**Sustainable
Remediation and
Regeneration of
Contaminated
Sites**

[Click here](#)

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

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Sapienza University of Rome, UNEM, Legambiente

Reclaim Expò continues to offer a meeting point for all those interested in the complex problem of remediation of contaminated sites at national and local level, from the institutions (Ministries, Regions, SNPA, ...) to the professional operators, which include the responsible subjects or otherwise interested in the remediation and the companies that offer services and technologies. The general framework of reference will be, once again, the sustainable management of "remediation", where the needs for the environmental remediation and those for the health safety are combined with acceptable costs for remediation and the economic recovery of the reclaimed areas. This year, particular attention will be given to the concept of "ecological transition" applied to the remediation of polluted sites, also with reference to the possibility offered by the PNRR.

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 (Energies for Mobility Union)
Giorgio Zampetti, Legambiente (Italian environmental association)

Programme

10.00-10.15 Greetings and introduction by the session presidents

10.15-10.30 *PNRR and opportunities in the recovery of orphan sites*
Maria Siclari, General Director of ISPRA (Italian Institute for Environmental Protection and Research)

10.30-10.45 *The scientific research for the development of sustainable remediation processes*
Marco Petrangeli Papini, Sapienza University of Rome

10.45-11.00 *The ecological transition and investment: industry proposals for sustainable development*
Marco Ravazzolo, Confindustria (General Confederation of Italian Industry)

11.00-11.15 *Transparency of procedures as a tool for accelerating the recovery processes of polluted areas*
Stefano Ciafani, Legambiente (Italian environmental association)

11.15-11.30 *Impact of National Concern Areas on Residents' Health: Knowing in order to reclaim*
Mario Sprovieri, CNR

11.30-11.45 *"The IMPEL Water and Land Remediation" project*
Marco Falconi, ISPRA

11.45-12.00 *Joint experimentation ISPRA - UNEM for the use of passive samplers in monitoring in contaminated sites*
Antonella Vecchio, ISPRA; Guido Bonfedi, ENI Rewind

12.00-12.15 *Energy and environmental sustainability criteria for remediation*

Francesca Benedetti, Italian Ministry for Ecological Transition Consultant Lawyer

12.15-12.30 *'Sustainable' remediation for efficient use of the soil resource: seizing the opportunity to enhance brownfield sites*

Francesco Misuraca, Eni rewind

12.30-12.50 Round table with:

Legambiente, trade associations, client companies, environmental operators, Italian Ministry for Ecological Transition and ISPRA (Italian Institute for Environmental Protection and Research) / SNPA (National System for Environment Protection) representative

12.50-13.00 Conclusions

THURSDAY 10
NOVEMBER

10:00 -
13:00

Mimosa Room B6
Pav

**Circular
Economy Value
Chains**
[Click here](#)

PNRR in the Construction Sector: state of the art, critical issues and opportunities

Language: Italian

Organized by: Ecomondo Scientific Technical Committee, Key Energy Scientific Technical Committee & Green Building Council Italia

The proper use of NRP funds includes meeting the 6 environmental objectives of the European Green Investment Taxonomy Regulation. The building sector is the one most affected by all these objectives. In order to benefit from the economic support of the NRP, therefore, awareness of the level of environmental quality of the construction work and the ability to report on the objectives achieved are essential. The NRP also requires adherence to stringent timelines for planning, design and execution of works. It is well known that the construction sector is the slowest among others due to the complexity of the process and the regulatory framework that governs it.

It is therefore also of great importance and interest to discuss the legislative tools for their effective implementation and where necessary revision and adaptation to the objectives of the NRP.

The conference will therefore seek to address these two aspects, environmental quality and design capacity, starting from the vision of the two main ministries involved in construction, the MiTE and MIMS, and then taking the debate to two tables: that of the public administrations, which manage the projects financed by the NRP, and that of the construction technology supply chains, which provide the implementation solutions.

President of Session

Marco Caffi, Green Building Council Italia, Ecomondo Scientific Committee
Gian Marco Revel, Università Politecnica Delle Marche, Key Energy Scientific Committee

Program

10.00-10.10 Introduction of the session chairs

10.10-10.20

The NRP opportunity for the sustainable transformation of the built environment
Marco Mari - Green Building Council Italy

10.20-10.40

PNRR's environmental objectives for construction and their reporting
Silvia Grandi - MiTE (Ministry of Ecological Transition)

10.40-11.00

The tools serving the construction processes financed by the PNRR
Andrea Ferrante- MIMS (Ministry of Infrastructure and Sustainable Mobility)

11.00-11.20

Case histories of building processes financed by the PNRR
Franco Zinna, City of Milan Housing Department

11.20-12.50

Round table:

Technological tools and solutions serving PNRR-funded building processes - constraints and opportunities

Tiziana Pescosolido, Municipality of Rome

Susanna Borelli, RFI Stations Management - FS Group

Federica Brancaccio, ANCE

Enzo Ponzio, CNA

Fabrizio Capaccioli, Green Building Council Italy

Paolo Barberi, ANPAR

Francesco Fatone, International Water Association and Water Europe Ambassador

Gaetano Settimo, National Institute of Health

12.50-13.00

Discussion and closing remarks

THURSDAY 10
NOVEMBER

10:00 -
13:30

Neri 1 Room South
Hall

**Policies and
Regulations**
[Click here](#)

End of Waste, a key passage in the Circular Economy

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & ISPRA (Italian Institute for Environmental Protection and Research)

End of Waste is a key link in the implementation of Circular Economy principles in waste management. Decree Law No. 77 of 31 May 2021, converted into Law No. 108 of 29 July 2021, again amended Article 184 ter of Legislative Decree No. 152/2006 introducing the mandatory and binding opinion of ISPRA, or the regional environmental protection agency with territorial jurisdiction in the authorization procedures on a case-by-case basis. The day represents an opportunity to provide an update on the various technical and legal aspects of the application of the regulation.

Session Chair

Valeria Frittelloni, Ecomondo STC and Director of the National Centre of Waste and Circular Economy, ISPRA (Italian Institute for Environmental Protection and Research)

Programme

10.00-10.15 Institutional greetings

10.15-10.35 *Introduction*

Marco Lupo, General Director of ARPA Lazio Region (Regional Agency for the Protection of the Environment) and Vice President SNPA (Italian National System for Environmental Protection)

10.35-10.55 *National legislation framework*

Maddalena Mattei Gentili, Directorate General Circular Economy, Italian Ministry for Ecological Transition

10.55-11.15 *Updating the SNPA Guideline on the End of Waste Status*

Francesca Minniti, ISPRA (Italian Institute for Environmental Protection and Research)

11.15-11.35 *Legal aspects of the SNPA guidelines*

Giuseppe Battarino, Magistrate Consultant of the Bicameral Commission on illegal activities related to the waste cycle

11.35-11.55 *Assessment of health aspects in the EoW requirements*

Federica Scaini, National Institute of Health

11.55-12.15 *ARPA Piemonte's inspection activities*

Elena Foddanu, ARPA Piemonte (Regional Agency for the Protection of the Environment)

12.15-12.35 *The recovery of titanium dioxide dust from waste*

Michela Dipinto, Head of Umbria Region AIA section industrial plants

12.35-12.55 *The role of technical standards in end-of-waste coding*

Viviana Buscemi, UNI - Ente Italiano di Normazione (Italian Standardization body)

12.55-13.05 Conclusions by the Chair

THURSDAY 10
NOVEMBER

10:00 -
17:30

Diotallevi 1 Room
South Hall

Blue Economy
[Click here](#)

The Blue Circular Bioeconomy in the Mediterranean

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee & Cluster BIG, WestMed Initiative, UNIDO SwitchMed

For centuries, the sea has enabled trade, offered livelihoods, and defined the socio-economic development of the Mediterranean region. Economic activities emanating from the sea continue to play an essential role in providing the region's incomes, food and a range of development opportunities. Nevertheless, depleted fish stocks, faltering catching rates, low efficiency and environmental impact of fish production activities are challenging the sector.

In this context, switching current production patterns of fishery, aquaculture and fish processing value chain toward more sustainable and circular business models is at the forefront of national and regional Blue Economy strategies.

This conference will discuss how more resource efficient mode of production will be key for the future sustainability of the fish processing industry, saving water and energy per unit of product. Innovative solutions for processing fish waste into co-products with a high added value could help the industry become more profitable, diversify the product portfolio, create new jobs, improve the resilience of businesses, and better retain the value from maritime resources into the economy. Fishery and aquaculture production with its steady upward trend over the last decades plays an essential role to ensure food for human consumption. Considering the relevance of both sectors and the existing challenges in the production chain (ghost gears, by-catch, discharge and waste of sea-food products, waste generated from transportation and packaging, etc.), the opportunity to develop circular economy initiatives in the Mediterranean is great and would largely benefit both the economy of the sectors and the marine environment.

Circular economy opportunities are distributed along the entire value chains of sea food products. In order to be able to implement changes in the circular economy direction, it is essential to fully understand the specificities of fisheries and aquaculture industry, including the different segments (small-scale and large-scale fisheries, but also possibly for single species/product) not only at country level, but also at sub-national/local level.

The development of a sustainable aquaculture, able to generate fish stocks while limiting its impact on maritime ecosystems is paramount. The introduction of smart technologies is a cornerstone to unlock the potential for business models that can turn challenges into opportunities while managing marine resources in an eco-efficient way.

Session Chairs

Leonardo Manzari, WestMed

Roberto Cimino, Cluster BIG

Benoit Watelet, UNIDO SwitchMed Blue Economy Team Leader

Programme

10.00 *Introduction by the Chairs*

10.10-10.20 *Mission ocean & Waters: making the Bioeconomy bluer & circular*

Elisabetta Balzi, Head of the Healthy Oceans&Seas Unit, European Commission, DG R&I

Session 1: Setting the context

10.20-10.35 *The Blue Bioeconomy in the Mediterranean*
Leonardo Manzari, Westmed Initiative Assistance Mechanism

10.35-10.50 *The Blue Bioeconomy in the Med Southern Shore*
Roberto Cimino, Cluster BIG
Ezeddine Kacem, Cluster Maritime Tunisien

10.50-11.00 *Presentation of the Cluster BIG*
Giovanni Caprino, Cluster BIG

11.00-11.15 *The strategic action plan in the national and European context*
Emilio Campana, CNR

Session 2: Creating Blue Innovation Ecosystems in the Mediterranean

11.15-11.30 *Blue Biotechnologies: the experience of B-Blue, BlueBioMed and Mistral projects*
Cristian Chiavetta, ENEA
Stefano Valentini, ART-ER

11.30-11.45 *Experience in Portugal*
Forum Oceano - R. Eiras, Secretary General

11.45-12.00 *Experience in Greece*
Cluster Strategis - G. Yovanof, President

12.00-12.20 Q&A Panel Discussion (chairs with speakers)

Session 3: Promoting Blue Economy innovation in the Mediterranean

12.20-12.40 Ilaria Pais, FAROS

12.40-13.00 *Blue Sea Land and its role in promoting the blue bioeconomy in the Mediterranean; District Blue Economy projects*
Nino Carlino, President of Mazara del Vallo Fishing District

13.00-13.15 Final remarks and conclusions (chairs)

13.15-14.00 Lunch break

Session 4: BIG vision and proposals for a blue circular bioeconomy

Session chairs:

Emilio Campana, Cluster BIG, Scientific Committee Coordinator
Giovanni Caprino, Cluster BIG, President

14.00-14.10 *BIG proposals for a blue circular economy in the fishing and aquaculture sectors*
Carlo Pretti, CIBM – CTS BIG

14.10-14.20 *Technological gaps and needs to foster a circular economy for the fishing sector: a zero-emission fishing fleet*
Stefania Valentini, Federpesca

14.20-14.30 *Waste heat driven refrigerator for low-emission fishing vessels*
Salvatore Vasta, CNR

14.30-14.40 *TEOREMA project: results and future perspectives*
Claudio Lugni, CNR

14.40-14.50 *BIG proposals for renewable energies*
Gianmaria Sannino, ENEA, CTS BIG

14.50-15.00 *Industrial perspectives for marine renewable energy in Italy*
Claudio Lugni, CNR
Gianni Scherl, Fincantieri

15.00-15.10 *ITEM project: results and future perspectives on blue biotechnologies*
Giovanna Romano, SZN

15.10-15.20 *BIG proposals for blue biotechnologies*
Donatella De Pascale, SZN - CTS BIG

15.20-15.30 *Industrial perspectives for blue biotechnologies in Italy*
Sara Daniotti, Italbiotec

Session 5: SwitchMed: sustainable and circular fish food systems for a Blue Economy in the Mediterranean

Session Chair:

Benoît Wuatelet, SwitchMed Blue Economy Team Leader at UNIDO

15.45-15.50 *Opening remarks*
Benoît Wuatelet, SwitchMed Blue Economy Team Leader at UNIDO

15.50-16.05 *Keynote Speech and Thematic contribution 1: State of play of circular blue economy practices in the Mediterranean and future opportunities*
Magali Outters, SwitchMed Policy Team Leader at MedWaves

16.05-16.20 *Thematic contribution 2: Biotechnological applications of co-products valorisation in the fish processing value chain. The Moroccan experience for biomedical, nutraceutical, cosmetic, agro-industrial applications*
Mariem Kharroubi, Research Director and Head of the CVSTPM (Centre Spécialisé de Valorisation des Produits de la Mer) of the INRH (National Institute of Halieutic Research)

16.20-16.35 *Thematic contribution 3: Identified business models and opportunities to increase the circularity of the fish processing value chain in Morocco*
Charles Delannoy, CEO and General Manager at Procidys

16.35-16.50 *Thematic contribution 4: The UNIDO SwitchMed pilot project in Tunisia for a sustainable aquaculture: improving the FCR (Feed Conversion Rate) using SMART Technologies for resource-efficient production systems*
Mohamed Salah Azaza, Senior research scientist and Director of the Aquaculture Laboratory at the INSTM (Tunisian National Institute of Marine Sciences and Technology)

16.50-17.00 *Innovative Business Case 1: Use of insect-based dry protein and lipid product for aquaculture – the case of Next Protein*
Syrine Chaalala and Mohamed Gastli, Founders of Next Protein

17.00-17.10 *Innovative Business Case 2: Blue Economy emerging sector: algae production - the case of AlgaeCore producing spiruline*

Baruch Dach, Co-founder of AlgaeCore

17.10-17.30 *Q&A and conclusion remarks*

Benoît Wuatelet, SwitchMed Blue Economy Team Leader at UNIDO

THURSDAY 10
NOVEMBER

10:00 -
17:45

Global Water Expo
Room D1 pav.

**Water
Management
and Valorization**
*Conference open to
Papers*
[Click here](#)

Water Project Europe - Challenges and eco-innovation actions addressing water scarcity and drought in Mediterranean countries

Language: English

Organized by: Ecomondo Scientific Technical Committee & Water Europe

CALL FOR PAPERS

The degree of water scarcity and its political, economic and social implications are felt much more severely in regions like the Mediterranean, where climate change is coming at a very high pace. In the last 50 years, the total water demand has doubled as a result of demographic pressure and from the development of water-intensive activities, such as tourism and manufacturing. Water quantity and quality challenges together with proper strategies for integrated water management, considering irrigation, energy production, and domestic and industrial use, need to be properly addressed. International collaboration and innovation actions are preferable mechanism to tackle these challenges from technical and socio-economic point of view. In the morning this workshop will gather the final main results of relevant EU-funded projeSTC which developed and validated demonstrative and full scale solutions. In the afternoon, industrial case studies for alternative water sources and risk management will be presented

Session Chairs

Giulio Pattanaro, European Commission

Andrea Rubini, Water Europe and Ecomondo STC

Programme

MORNING SESSION

10.00-10.10 Introduction by the Chairs

10.10-10.25 **H2020 and HEU projects addressing water scarcity challenges**

Giulio Pattanaro, Research Programme Administrator, REA.B3 Biodiversity, Circular Economy and Environment

10.25-11.10 **Horizon2020 HYDROUSA final short workshop**

Horizon2020 HYDROUSA final short workshop

Simos Malamis (National Technical University of Athens) and HYDROUSA consortium

The Water Oriented Living Lab within HYDROUSA

Andrea Rubini (Water Europe)

Full scale replication in Gorgona island and digital tool for quick feasibility study

Camillo Palermo (ASA Livorno and ARETUSA PPP)

Anna Laura Eusebi, Lucia De Simoni, Josué Gonzalez Camejo and Niccolo Ciuccoli
(Università Politecnica delle Marche)

A project-based cluster strategy to boost circular economy: the HYDROUSA case

Lucia Gusmaroli (Catalan Water Partnership)

11.10-11.50 **PRIMA FIT4REUSE final short workshop**

PRIMA FIT4REUSE as toolbox of green and gray solutions for water reuse in Mediterranean area

Attilio Toscano and Stevo Lavrnjic (Alma Mater Studiorum-Università di Bologna) -
FIT4REUSE Coordinator

Compact technological solutions validated in FIT4REUSE

Alessia Foglia and Marco Parlapiano (Università Politecnica delle Marche)

Socio-economic and multipurpose assessment of the FIT4REUSE toolbox

Valentina Guerrieri e Matteo Vittuari (Alma Mater Studiorum-Università di Bologna)

11.50-12.30 **Horizon2020 DIGITAL WATER CITY final short workshop**

Digital Solutions in Urban Water Services : from drinking water distribution to wastewater treatment and reuse

Nicolas Caradot (Berlin Competence for Water) - DWC Coordinator

Digital Twin, Early Warning System, sustainability assessment and serious game in Water Reuse Risk Management Planning in Peschiera Borromeo

Serena Radini, Enrico Marinelli, Massimiliano Sgroi (Università Politecnica delle Marche)

Susanna Murtas and Luca Lucentini (Istituto Superiore di Sanità)

Water reuse, precision farming, matchmaking platform: the utility and the irrigation manager perspective

Marco Bernardi (Gruppo CAP), Adriano Mancini (Università Politecnica delle Marche),
Claudio Gandolfi and Gian Battista Bischetti (Università di Milano)

12.30-12.45 **Finding innovative solutions for water scarcity in Southern Europe**

Blanca Chocarro Ruiz (EIT Water Scarcity)

12.45-13.00 **Water reuse in Sicily and in Horizon2020 Wider Uptake project**

Giorgio Mannina (Università degli Studi di Palermo) (TBC)

13.00-13.10 Discussion and Closure (by the chairs)

AFTERNOON SESSION

Session Chairs

Francesco Fatone, Ecomondo Technical Scientific Committee and Polytechnic University of Marche

Attilio Toscano, Ecomondo Technical Scientific Committee and University of Bologna

14.00-14.20 Introduction by the Chairs
including focus on the proposal for a revised on Urban Wastewater Treatment Directive and link with successful EU-funded projects
(by Francesco Fatone)

14.20-14.35 **European guidelines on water reuse and risk management planning**
Bernd Gawlik, European Commission - JRC

14.35-16.15 **Water reuse in Italy: current situation and next steps - Panel discussion** (in ITALIAN)

Laura D'Aprile, Capo dipartimento MITE (TBC)

Marianna Ferrigno, MIPAAF/CREA

Jacopo Manca, ARERA

Fernanda Moroni, Autorità di distretto del Po

Francesco Tornatore, Regione Emilia-Romagna

Vito Belladonna, ATERSIR (TBC)

Giordano Colarullo, UTILITALIA

Raffaella Zucaro, ANBI

Paolo Gelli, HERA

Ilihc Ghinello, Consorzio di Bonifica della Renana

Stefano Masini, COLDIRETTI

Rosario Mazzola, Università di Palermo, consulente per il PNRR del Governo

Call for papers session

16.15-16.30 *Using Biosensors to ensure water quality and disinfection balance in Municipal Water Reuse for local Agriculture*

Tom Williams (Enebio Ltd); Roberto Di Cosmo and Marco Bernardi (Gruppo Cap)

16.30-16.45 *SFS-H Phytotreatment for irrigation reuse channels: Oxi-Nitro efficiency tested on pilot plant*

Carmine Fiorentino, Maurizio Mancini (University of Bologna)

16.45-17.00 *Smart Water Management to reduce Water Scarcity*

Pietro Oliva (Grundfos)

17.00-17.15 *The Alliance For Water Stewardship: a recognized, innovative, resilient solution to water scarcity*

Eugenio Capponi, Beatrice Bizzaro, Ilaria Troncia, Alessandra Magnani (HPC Italia)

17.15-17.30 *The water-energy nexus in a drinking water supply system*

Francesco Arfelli, Luca Ciacci, Fabrizio Passarini (University of Bologna)

17.30-17.45 Discussion and conclusions

POSTER SESSION

WT MV3 – 1 *Assessing Sustainability in Reusing of a Treated Wastewater for Irrigation*
 Russo C.*1, Bianchi P.2, Cappelletti G. M.1, Di Noia A. E.1, Grilli L.1, Nicoletti G. M.1
 1 Department of Economics, Management and Territory, University of Foggia, 2
 Department of Economy, University of Foggia

WT MV3 – 2 *Una strategia avanzata di ottimizzazione dei processi di potabilizzazione di acque superficiali*

Adriano Zaratti, Simone Leoni, Alessandro Frugis, Giancarlo Cecchini, Alessandro Filippi (Acea Elabiori - ROMA) Armando Zitelli, Dario Sabini, Davide D'Alonzo, Claudio Puliti (ACEA ATO2 - ROMA)

WT MV3 – 3 *Organic matters and nitrogen removal in FWS basins: comparisons in mediterranean WWT plants*

Carmine Fiorentin, Maurizio Mancini, DICAM, Università di Bologna

WT MV3 – 4 *L'Acquaponica, i giovani e il futuro*

Patrizia Balzarini, Carlo Ramoni - I.I.S. "L. Cobianchi", Verbania, Italia

WT MV3 – 5 *Sistema digitale per il riuso irriguo di acqua reflua: il progetto digital-water.city a Milano*

Marco Bernardi, Responsabile Ricerca, Innovazione e Sviluppo Industriale, Gruppo CAP

WT MV3 – 6 *Measuring the water stress in agricultural sector. an application for mediterranean area towards circular economy*

Crovella, T., Lagioia, G., Paiano, A. Department of Economics, Management and Business Law, University of Bari Aldo Moro

WT MV3 – 7 *Merging The Circular Economy with The Blue Economy*

Christopher J Rochfort - The Centre for Organic Research & Education (CORE)

WT MV3 – 8 *Smart Water Management to prevent Water Scarcity*

Pietro Oliva, Grundfos

THURSDAY 10
NOVEMBER

11:00 -
12:30

Workshop Room
B1 pav.

**Waste
Management
and Valorization**
[Click here](#)

The role of Waste Management in european and national policies on energy transition and circular economy

Language: Italian

**Organized by: Ecomondo Scientific Technical Committee
& Utilitalia, Assoambiente**

The crises in the world scenario oblige Europe to give a strong acceleration for reducing external dependence in the supply of energy and material resources. This challenge, which is both economic, environmental and geopolitical, requires us to look at the strategic role of waste management with renewed pragmatism, with particular reference to its important contribution to the achievement of the targets on self-sufficiency, decarbonisation, energy transition and efficient and circular use of resources. The conference will illustrate the most recent analyses conducted at European and national level about the contribution that a full development of waste management can give to the circular use of materials and energy, and the related economic and environmental benefits. In the subsequent round table, institutions (European and national) and representatives of the waste management industry will be asked to discuss the recipes needed to face the new challenges.

Session chair

Giordano Colarullo, General Director Utilitalia

Programme

11.00 *Introduction and coordination by the Chairman*

Giordano Colarullo, General Director Utilitalia

11.10 *CO₂ mitigation potential by the European waste management sector*

Bärbel Birnstengel and Richard Simpson, Prognos

11.30 Round table

Moderator: Mauro Spagnolo, Director Rinnovabili.it

Davide Tabarelli, President Nomisma Energia

Francesco Ferrante, Vice president Kyoto Club

Chicco Testa, President Assoambiente

Luca Dal Fabbro, President Iren, Vice President Utilitalia

12.30 Closure by the round table moderator

THURSDAY 10
NOVEMBER

11:30 -
13:10

Neri 2 Room
South Hall

**Circular
Economy Value
Chains**
[Click here](#)

Moving the Mediterranean textile and fashion industry towards greener and circular business models

Language: English

Simultaneous translation: Arabic, French

Organized by: Ecomondo Scientific Technical Committee & UNIDO and MedWaves

The fashion industry has created one of the largest consumer goods markets, with highly sophisticated value chains of significant economic importance. In the OECD countries, the fashion is the second largest market for consumer goods after food. It follows that such a large industry has an enormous impact on the environment. The fashion industry is thought to be one of the most polluting industries in the world ([UN News, March 2019](#)). Besides the high water and carbon footprint, the sector makes intensive use of chemicals that are not only hazardous to the environment and humans, but also represent a major obstacle to textile recycling. Rising global demand for textiles for various end user applications has made natural fibers increasingly scarce and a critical cost factor. In response to sustainability challenges, spurred also by growing consumer awareness of the impacts of garment production, global brands are seeking better alternatives including renewable and recycled fibers, cleaner production processes and circular business models. One of the aspects central to the implementation of [circular economy](#) practices in the fashion industry is related to raw material consumption. The manufacturing of garments generates huge amounts of textile waste along the supply chain, both at post-industrial and at post-consumer level. This conference will discuss how businesses have launched platforms and collaborations in order to reach circularity targets such as implementing recycling technologies and increasing the use of sustainably produced fibers and implementing safer chemical protocols.

Session Chairs

Ms. Roberta De Palma, Chief Technical Advisor at UNIDO
 Ms. Anna Ibañez de Arolas, Project Manager at MedWaves

Programme

11.30-11.35 *Welcoming*

Ms. Roberta De Palma, Chief Technical Advisor at UNIDO

11.35-11.45 *Keynote Speech*

Representative from EURATEX (TBD)

11.50-11.58 *SwitchMed pilot projects from Tunisia, Egypt and Morocco, in collaboration with the ZDHC Foundation, targeting safer chemical protocols in the textile industry.*

Ms. Elisa Gavazza, Southern Europe Hub Manager at ZDHC Foundation

11.58-12.06 *Safer chemical management in the textile industry and the impacts of hazardous chemicals on the circularity in the textile value chain*

Ms. Marie Louis Bishara, President of the Apparel Export Council of Egypt (TBC)

12.06-12.14 *Sustainability challenges and opportunities of the industry in the North African Region: Strategic partnerships and collaborations to advance circularity, traceability and transparency in the textile waste recycling value-chain.*

Ms. Sara Mariani, Corporate Sustainability Manager at OTB

12.14-12.22 *Circular business opportunities in Tunisia? What is needed to support textile and garment industries in Tunisia in becoming the suppliers of the future?*

Mr. Haithem Bouajila, Managing Director at Tunicotex

12.22-12.30 *Circular business models for valorizing post-industrial textile waste and business opportunities for localizing recycling value-chains in the Mediterranean.*

Mr. Khalid Kairouch, Production manager at EVLOX

12.35-12.45 *Circular business opportunities in the south Mediterranean: how can businesses lead the way to sustainable fashion?*

Ms. Ferda Ulutas Isevi, Sustainability and Circular Economy consultant

12.45-12.55 *Case Study 1: Circular business models for post-consumer textile waste: attaining the sustainability triple bottom line, integrating and scaling up entrepreneurship in Lebanon.*

Mr. Omar Itani, CEO and Founder at Fabric Aid

12.55-13.05 *Case Study 2: Recovering resources after disposal: eco-innovative recovering value and upcycling strategies in the fashion sector in Egypt.*

Ms. Mai Hossam, Founder and Managing Partner at Darjee

13.05-13.10 Closure (by the chairs)

THURSDAY 10
NOVEMBER

11:30 -
13:30

Cedro Room West
Hall

**Financing,
Education and
Communication**
[Click here](#)

The World Bank & other MDBs: Water Treatment Projects, Technologies & Opportunities in Emerging Markets

Language: English

Organized by: World Bank, ADB, AfDB, EBRD, EIB, IADB - MAECI, MEF & Italian Trade Agency

This initiative, jointly promoted by the Italian Ministry of Foreign Affairs and International Cooperation and the Italian Ministry of Economy & Finance, is executed by the Italian Trade Agency. Its goal is to foster the mutual knowledge between sector experts of the main MDBs and top Italian SMEs, with the aim of strengthening the participation of the latter in projects financed by the major MDBs in this field.

Session Chairs

Liborio Stellino, Deputy Director General for Internationalisation - Italian Ministry of Foreign

Paolo Cappellacci, Italian Ministry of Economy and Finance

Programme

11.30 ***World Bank - Main initiatives in water sanitation in emerging markets***

Antonio Rodriguez Serrano, Sr. Water and Sanitation Specialist, The World Bank.

11.50 ***AfDB - Top projects & technologies in water sanitation in Africa***

Emmanuel Olet, Chief Water Resources Development Officer, African Development Bank

12.05 ***IADB - Main Projects in water sanitation & waste management in America Latina***

Rodrigo Riquelme, Water & Sanitation Lead Specialist, Inter-American Development Bank

12.20 ADB: Main Projects Funded in Asia

Allison Woodruff, Chief of Water Sector Group, Asian Development Bank

12.35 EBRD: Main Projects & Technologies for Water Sanitation in Central Asia

David Tyler, Chief of Water Sector Group, European Bank for Reconstruction & Development

12.50 EIB: main projects and opportunities In & Outside the EU

Thomas Van Gilst, Head of the Water Security and Resilience division, European Investment Bank

13.05 Question & Answer

13.25 Closing Remarks

Paolo Cappellacci, Coordinator of the multilateral development banks & funds office - Italian Ministry of Economy and Finance

Moderated by: Matteo Masini, Italian Trade Agency ITA/ICE

THURSDAY 10
NOVEMBER

14:00 -
15:15

Innovation Arena -
South Hall

**Research and
Innovation**
[Click here](#)

EU funding for green projects – a world of possibilities

Language: English

Organized by: Ecomondo and Key Energy Scientific Technical Committees & European Commission

In the workshop, European Commission representatives will present the European Innovation Council (EIC), the European Climate, Infrastructure and Environment Executive Agency (CINEA) and the European Research Executive Agency (REA), as well as their 2022 Work Programmes and thematic funding calls.

Session Chairs

Francesco Matteucci, EIC Programme Manager

Philipp Troppmann, Deputy Head of Unit CINEA A1 - Programme support, coordination & communication

Giulio Pattanaro, Research Programme Administrator, REA.B3 Biodiversity, Circular Economy and Environment

Programme

14.00 *Introduction*

Fabio Fava, University of Bologna & President of Ecomondo Scientific Technical Committee

The European Innovation Council and the EIC 2022 WP

Francesco Matteucci, EIC Programme Manager

The European Innovation Council (EIC) is Europe's flagship innovation programme. It aims at identifying, developing and scaling up breakthrough technologies and game changing innovations with the potential to scale up internationally and become market leaders. The EIC supports all stages of innovation, from research and development on the scientific underpinnings of breakthrough technologies, to validation and demonstration of breakthrough technologies and innovations to meet real world needs, to the development and scaling up of start-ups and small and medium-sized enterprises (SMEs) applying an hands-on content wise approach. The EIC provides funding through both open and challenge-based calls that in EIC WP2022 cover, amongst others, green topics such as long-term energy storage, carbon capture and utilization (CCU) or hard to abate industries decarbonisation. The EIC has been established under the EU Horizon Europe programme and operates on a budget of €10.1 billion for the 2021 – 2027 period.

The European Climate, Infrastructure and Environment Executive Agency (CINEA) and its EU funding programmes for transport, energy, climate action, environment and maritime fisheries and aquaculture

Philipp Troppmann, Deputy Head of Unit CINEA A1 - Programme support, coordination & communication

The European Climate, Infrastructure and Environment Executive Agency (CINEA) has been established by the European Commission to implement parts of EU funding programmes for transport, energy, climate action, environment and maritime fisheries and aquaculture. The Agency has a key role in supporting the European Green Deal – one of the European Commission's main strategic priorities. CINEA aims to support its beneficiaries, establish strong partnerships, deliver high-quality programme and project management, foster effective knowledge sharing and create synergies between programmes - to support a sustainable, connected, and decarbonised Europe. The Agency manages 7 EU Programmes worth around €55 billion: Connecting Europe Facility (CEF), Horizon Europe, LIFE programme, European Maritime, Fisheries and Aquaculture Fund (EMFAF), Innovation Fund, EU Renewable Energy Financing Mechanism and Just Transition Mechanism.

The European Research Executive Agency (REA) and Horizon Europe's Cluster 6

Giulio Pattanaro, Research Programme Administrator, REA.B3 Biodiversity, Circular Economy and Environment

Mandated by the European Commission to support the EU Research and Innovation policy, the European Research Executive Agency (REA) funds high-quality research and innovation projects that generate knowledge for the benefit of society. REA's mission is to help build a greener Europe with prosperous, inclusive societies and economies that take full advantage of the digital age. REA manages the following EU programmes (or parts thereof): Horizon Europe, Horizon 2020, Research Fund for Coal and Steel and Promotion of agricultural products. REA's presentation will focus on the Cluster 6 of Pillar 2 of Horizon Europe, which is about "Food, bioeconomy, natural resources, agriculture and environment" (budget of €7.4 billion for the 2021 – 2027 period).

Discussion

Fabio Fava, Francesco Matteucci, Philipp Troppmann, Arnoldas Milukas

15.10 Closure by the chairs

THURSDAY 10

NOVEMBER

14:00 -

17:30

Neri 1 Room South
HallCircular
Economy Value
Chains
[Click here](#)

Critical raw materials: national table, strategy, developments and prospects

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Italian Ministry of Economic Development (DGPIIPMI), Italian Ministry for Ecological Transition, ENEA, National Critical Raw Materials Table

The policies for the Critical Raw Materials have assumed a more strategic and central role recently. As a direct consequence, the National Table "Critical Raw Materials" was launched with the objective of enhancing the coordination about the topic. Moreover, it fosters planning in terms of sustainability and circularity of Critical Raw Materials' supply with the aim of achieving the creation of normative, economic and market conditions through the involvement of institutions, trade associations, research institutes and industry consortia. Nowadays, the Table aims at mapping the Italian needs of Critical Raw Materials, by integrating data with the availability of Critical Raw Materials, then using the resulting information as a basis for the definition of a national strategy for Critical Raw Materials.

In this regard, on January 2022 four Technical Working Groups were created, each one related to a specific domain, with the purpose of putting in place a far-sighted system of supply and demand for each sector and geographical area. More in detail, the Working Group 1 called "Needs Analysis", and coordinated by Confindustria, engages in the evaluation of the future needs of the Critical Raw Materials at the Italian and European level. It analyses particularly the gap between supply and demand in order to achieve a proper planning of the solutions to cope with possible future difficult scenarios. The Working Group 2 "Mining" is coordinated by ISPRA and deals with the identification of the potentialities of the primary and secondary mining activities to achieve sustainable mining activities in Italy, and the collection of Raw Materials from abandoned sites and mineral waste. The Working Group 3 "Eco-design" coordinated by ENEA, wants to engage in the analysis of the opportunities derived by eco-design to reduce the demand for Critical Raw Materials. The Working Group 4 is defined "Urban Mining" and focuses on WEEE. It contributes through the offer of normative proposals for the simplification of waste collection from produSTC at the end of their life-span, following the analysis for the best practices at the European and global level.

The seminar aims at analysing the progress of the Working groups and discusses such crucial themes with some of the main actors on the Italian productive system which are also involved in the green supply chain.

Session Chairs

Giacomo Vigna, Italian Ministry of Economic Development
Claudia Brunori, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

Programme

14.00 *Introduction – National Critical Raw Materials Table*

Maurizio Montemagno, Directorate General for Industrial Policy, Innovation and Small and Medium-sized Enterprises, Italian Ministry of Economic Development
Carlo Zaghi, General Directorate for Circular Economy, Ministry of Ecological Transition

14.40 *GdL 1: supply and demand analysis: status update*

Marco Ravazzolo, Confindustria (General Confederation of Italian Industry)

15.00 *GdL 2: the national mineral potential*

Fiorenzo Fumanti, ISPRA (Italian Institute for Environmental Protection and Research)

15.20 *GdL3: Ecodesigned, status update and next steps*

Roberta De Carolis, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

15.40 *GdL 4: Urban mining status update and next steps*

Federica Forte, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

16.00 *Round table*

Moderated by: Claudia Brunori, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

Batteries (FAAM) - Dott. Federico Vitali

Metallurgy (CUMDI) - Dott. Fausto Pizzoni

WEEE recovery (ENEL) - Dott. Fabrizio Iaccarino

Geothermics (Energia Minerals) - Dott. Marcello De Angelis

Unicircular (section of Assoambiente) (Circular Economy Companies Union)

- Giuseppe Piardi

17.00 Q&A

17.15 Closure

Renzo Tomellini, Head of the technical secretariat, Ministry of Ecological Transition

17.30 End of works

THURSDAY 10
NOVEMBER

14:00 -
17:30

Reclaim Expo
Room C1 Pav.

**Sustainable
Remediation and
Regeneration of
Contaminated
Sites**

*Conference open to
Papers*

[Click here](#)

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

Language: Italian

**Organized by: Ecomondo Scientific Technical Committee & Sapienza
Università di Roma, UNEM, Legambiente**

CALL FOR PAPERS

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

Session Chairs

Marco Petrangeli Papini, Sapienza University of Rome
Donatella Giacometti, Unem (Energies for Mobility Union)
Fabio Pascarella, ISPRA (Italian Institute for Environmental Protection and Research)

Programma

14.00-14.15 Greetings and introduction by the Session Chairs

Speeches from the Call for Paper

14.15-14.30 *SURE by Ramboll: Case example of sustainability assessment in groundwater remediation*

Arianna Pantano et al., Ramboll

14.30-14.45 *Criteri per l'individuazione dei contaminanti indice da sottoporre all'analisi di rischio*

Maurizio Guerra et al., ISPRA

14.45-15.00 *La tecnica dell'iperossigenazione per le bonifiche nei PV carburanti - valutazioni e sostenibilità*

Simone Biemmi et al., Arcadis Italia S.r.l.

15.00-15.15 *Treatment by thermal desorption of dioxin-contaminated soils and vapor management through thermal oxidizer at Bien Hoa Airbase*

Youssef Ourrid, Haemers Technologies SA - inglese

15.15-15.30 *Feasibility of mycoaugmentation in clean-up of TPH-contaminated soil: LIFE MySOIL project* Fiora Bagnato et al., Eni Rewind - University of Tuscia - DIBAF - Dep. for Innovation in Biological, Agro- food and Forest Systems

15.30-15.45 *Interventi combinati, chimico-fisici e biologici, per la gestione di un pennacchio di contaminazione da solventi clorurati in area urbana*

Paolo Ciampi et al., Sapienza Università di Roma

15.45-16.00 *Combinazione di trattamenti sperimentali e consolidati per una efficace e sostenibile bonifica da PFAS: caso studio*

Anna de Fina et al., Golder WSP

16.00-16.15 *Trattamento rapido di un plume clorurati mediante barriera iniettabile di adsorbimento e ISCR*

Marcello Carboni et al., Regenesis CECAM srl.

16.15-16.30 *Utilizzo dei Soil Gas per l'Analisi di Rischio: protocollo SNPA e software Rome Plus*

Pierluigi Rendicini et al., Ecotherm

16.30-16.45 *Siti contaminati e bonifiche in Italia: alcuni recenti esempi virtuosi di trattamento sostenibile*

Alberto Leombruni et al., Evonik Active Oxygens

16.45-17.00 *Regeneration of groundwater by innovative chemical treatments*

Andrea Santambrogio et al., Stantec

17.00-17.15 *Casi applicativi di biorisanamento – strategie combinate e limitazioni*

G. Cerruti et al., HPC Italia s.r.l - ENI-Energy Evolution Green/Traditional Refining & Marketing - M3R-Monitoring & Management of Microbial

17.15-17.30 *La bonifica di un sito inquinato con l'impiego di idonee soluzioni tecnico operative*

Antonella Lomoro et al., Studio di ingegneria per l'ambiente

17.30 Debate and conclusions

Digital posters

SRRCS1-1 *Una review tecnico normativa della gestione dei c.d. "space junk"*

(Francesco Ventura, Daniela Barba (QBM S.r.l.))

SRRCS1-2 *Management strategies of contaminated sediments in a Site of National Interest (SIN)*

(Nicola Cardellicchio - University of Basilicata, Dep. of Science; Francesco Cardellicchio, CNR Institute of Methodologies for Environmental Analysis)

SRRCS1-3 *Remediation of the polluted regalbuto site: case study Metaservice S.R.L.*

(SPADARO A. (1) - SPADARO O. (1) - CARRABINO R. (1) - ZERBO A. (1) - MUSUMECI S. (2) - BELLOMO G. (1) 1:Dipartimento Economia e Impresa - Università degli Studi di Catania 2: MetaService s.r.l.)

SRRCS1-4 *Valutazione della sostenibilità delle bonifiche: il DSS ASTRA e il software STAR-LCA*

(S. A. Frisario*, S. Breda**, M. Menegaldo***, A. Bonfà**, M. Carisi***, A. Zabeo***, F. Villani*, G. Bonfedi*, L. Pizzol**, P. Scanferla**, A. Marcomini**, * Eni Rewind S.p.A. ** Fondazione Università Ca' Foscari *** GreenDecision s.r.l.)

SRRCS1-5 *RECAP: A practical Definition of Sustainable Remediation*

(Jan Haemers, Haemers Technologies SA)

SRRCS1-6 *La fitodepurazione come tecnologia di bonifica nature-based per rafforzare i processi di attenuazione naturale*

(Aurora Basile, Maite Tejerina Nunez, Anna De Fina, Ruggero Passaro, Nicola Bentivoglio - Golder WSP)

SRRCS1-7 *Manuale IRSA-ISPRA-ARPAV "Sviluppo e valutazione di modelli di flusso in acquiferi porosi"*

(Emanuele Romano (IRSA), Chiara Fiori (ISPRA), Massimo Mazzola (ARPAV), Elisabetta Preziosi (IRSA))

SRRCS1-8 *Sustainable strategies in polluted site remediation*

(Chantal Savaria, geological engineer, Founding President of Savaria Experts-Conseils inc. and Lecturer at Sherbrooke's University)

SRRCS1-9 *Bio-Remediation di acque sotterranee mediante un approccio innovativo e sostenibile*

("Antonio Molinari, Laura Quintarelli, Mauro Fortugno, Andrea Campioni, Affiliations: Ramboll Italy S.r.l., Roma")

THURSDAY 10
NOVEMBER

14:00 -
18:00

Ravezzi 2 South
Hall

**Financing,
Education and
Communication**
[Click here](#)

Women entrepreneurship in green tech

Language: English

Organized by: Ecomondo Scientific Technical Committee & APRE

The workshop "Women entrepreneurship Green tech" aims at raising awareness regarding the policies and support measures put in place to strengthen the presence of women in leading enterprises in the green tech sector, that encompasses a wide area of scientific research, including energy, atmospheric science, agriculture, material science, and hydrology. While the female employment rate has increased to 67.3% (Eurostat, 2020), just 34.4% of the self-employed are women, 31% of those working as start-up entrepreneurs (Female entrepreneurs – women in enterprises: Motivation, work-life balance, challenges, 2017). Data shows that women continue to be under-represented among Doctoral graduates in the majority of narrow STEM fields (She figures, 2021). Therefore, less women are employed in STEM work's fields after the cycle of studies. However there are lots of networks and initiatives that boost women's presence in those sectors. This workshop will be the opportunity to show and engage projects, people and actions towards a more strong presence of women in the green tech sectors.

Programme

14.00 Welcome
Serena Fabbrini (APRE)

14.05 Introduction to the workshop
Luisa Prista (former EC Senior official)

14.10 *Introduction*
Maria da Graça Carvalho (European Parliament) (online)

14.20 SESSION 1 – Voices and policies

Introduction and moderation by Luisa Prista

Promote gender-sensitive action around the energy transition. Global Women's Network for the Energy Transition

Christine Lins (GWNET) (online)

Advancing gender equity across the EIT entrepreneurial ecosystem

Melis Guvensoy Okalper (Women@EIT)

EEN – Women Entrepreneurship Sector Group

Idaira Robayna Alfonso (EISMEA) (online)

GEPs and the integration of the gender dimension into R&I projects. The H2020 PLOTINA experience

Tullia Gallina Toschi (University of Bologna)

Increase the promotion of women in the field of clean energy. The Equality in Energy Transitions Initiative (Equality Initiative)

Azadeh Badieijaryani (Equality in Energy Transitions Secretary)

15.35 BREAK

15.50 **SESSION 2 – W4RES Seminar**

Introduction by Serena Fabbrini

W4RES – Presentation by the Coordinator

Ioannis Konstas (QPLAN)

SEMINAR: Capacities strengthening session for a gender-just energy sector

Marilys Louvet (WECF)

16.50 BREAK

17.00 **SESSION 3 – Success cases: round table and Q&A**

Introduction and moderation by Serena Fabbrini

Fostering urban transition via effective energy efficiency plans in social housing: the H2020 project SUPER-I

Paola Zerilli (University of York)

Women TechEU: Supporting deep-tech start-ups led by women - the case of Splastica

Emanuela Gatto (Tor Vergata)

InspiringFifty - increase diversity in tech by making women role models more visible

Kathy Vredevelt (Inspiring Fifty)

Wsense: underwater monitoring and communication systems

Chiara Petrioli (Founder & CTO, Wsense SRL)

17.50 Q&A session

Closing

THURSDAY 10
NOVEMBER

14:00 -

18:00

Agorà Energy 1
Pav. B7

Research and
Innovation

[Click here](#)

Africa Green Growth

Language: English

Organized by: Res4Africa, Ecomondo Scientific Technical Committee and Key Energy Scientific Technical Committee

[Book you seat](#)

The main objective of the *Africa Green Growth* forum is to foster the entrance of our Italian companies in the vast African market, promoting their advanced technology and integrated solutions that will be able to meet the needs of food, water, raw materials and energy supply. The two main focuses will be “Water Energy and Food Nexus”, and “Green Hydrogen”: at the same time, circular economy, bioeconomy and young entrepreneurship will also be under the spotlight.

With the support of the Italian Trade Agency, The Italian Ministry of Foreign Affairs and International Cooperation, The Italian Ministry of Ecological Transition, and the Italian Ministry of University and Research, Embassies of the target countries in Italy will be involved, along with African government representatives, associations, institutions and qualified media: this will allow them to introduce the guidelines on the above-mentioned sectors for the next 2-5 years. At the same time, commercial delegations will be welcomed to establish a solid network between the industrial and the institutional sector.

President of Session

R. Vigotti – Secretary General, RES4Africa

Programme

2 p.m. – 2.30 p.m.

Institutional speech on climate change

R. Vigotti – Secretary General, RES4Africa

A. Biancardi – Head of Institutional Affairs, GSE

2.30 p.m. - 3.30 p.m.

Renewable Energy and Green Hydrogen

Opening from the Minister Plenipotentiary of the Embassy of Morocco, Mr. Khalid Atlassi

Opening from the Representative of the Embassy of Egypt, Ms. Noha Syam

Moderator: P. Cutrone – MED Area Senior Program Manager, RES4Africa

Speeches from African countries

- Morocco: (M. Benmeziane – Head of Communication and Technology Watch, Iresen)

Technical speeches

- L. Casadio – Business Development H2, P2X and Hybrid Solutions, Siemens-Gamesa
- N. Pierozzi – Carbon Reduction Excellence Technical Manager, Rina Corporate

- A. Meola - Business Development Director Consulting Division, CESI

3.30 p.m. – 3.40 p.m.

Technical break

3.40 p.m. – 4.40 p.m.

Innovative and sustainable initiatives for African countries

Opening from Representative of the Embassy of Kenya, Mr. Anthony Muriithi

Moderator: D. Guzzo – Access to Energy Officer, RES4Africa

Speeches from African countries (Key Energy-Ecomondo delegations)

- Rwanda: (B. Uwimana – Rwanda's Ministry of Environment, Communication and Outreach Specialist)
- Kenya: (G. Katiambo - Founder, INNO-NEAT Energy Solutions)
- South Africa: (C. Edeh – Director, African Sustainable Energy Association)
- Ghana: (M. Tuwor – Managing Director, Accra Compost Recycling Plant)

A. Karembu - Principal Renewable Energy Officer, African Development Bank

4.40 p.m. – 5 p.m.

End of works

5 p.m. – 5.45 p.m.

UNIDO ITPO Italy – Award Ceremony of the “FIPEE Call for High Impact Cleantech”

FIPEE Call for High Impact Cleantech” of UNIDO ITPO Italy aimed to identify projects with high-impact potential cleantech innovations from Botswana, Cuba, Ethiopia, Kenya and Peru. Selected projects have received targeted support to enhance their investment-readiness and business competitiveness through a specific training acceleration program, and an ad hoc jury of experts chose the 5 winners, one for each country. The initiative is part of the FIPEE project (www.unido.it/FIPEE), implemented by UNIDO ITPO Italy and funded by the Italian Ministry of Ecological Transition.

Opening remarks

- Ms. Diana Battaglia | Head of UNIDO ITPO Italy
- Ms. Cecilia Erba | Project Expert at the Italian Ministry of Ecological Transition - MiTE

Winners presentation and award

- Presentation of the winner from Botswana *awarded by Ms. Kelebogile N. Kgathi, Economic Officer at the Embassy of Botswana to Belgium accredited to Italy*
- Presentation of the winning project from Cuba *awarded by Eng. Bladimir Matos Moya, First Vice President of INRH Cuba*
- Presentation of the winning project from Ethiopia *awarded by H.E. Demitu Hambisa Bonsa, Ambassador of Ethiopia to Italy*
- Presentation of the winning project from Kenya *awarded by Eng. Benson Mwakina, Director of Renewable Energy at Ministry of Energy of Kenya*

- Presentation of the winning project from Peru *awarded by Ms. Cecilia Erba, Project Expert at MiTE*

Closing remarks

- Ms. Sunyoung Suh | Project Coordinator at UNIDO Global Cleantech Innovation Programme (GCIP)

Moderator: Valentina Maltese | FIPEE project coordinator at UNIDO ITPO Italy

5.50 p.m. – 6.30 p.m.

Networking cocktail at Piazza della PA (pav. D7)

THURSDAY 10
NOVEMBER

14:00 -
18:00

Workshop Room
B1 pav.

**Circular
Economy Value
Chains**
[Click here](#)

From Sustainability to Circularity - Codesign and open innovation in the packaging value web

Language: Italian

**Organized by: Ecomondo Scientific Technical Committee & Osservatorio Innovazione Packaging - Advanced Design Unit
Department of Architecture, University of Bologna**

The circular design of resources involves redesigning the relationships within the supply chain and thinking in system terms. The Packaging System has undergone profound shake-ups and transformations in recent years, and circularity is no longer just a possibility, but a real strategy to enable the sector to feed itself, people to benefit from consumer products, and the planet to sustain us.

In this meeting, the Packaging Innovation Observatory ([Osservatorio Innovazione Packaging](#)) - a transversal competence centre that aims to connect actors and disciplines in the sector, to aggregate and rework knowledge, to trigger innovation - investigates with witnesses and case studies the strategic importance, in view of circularity, of collaboration (enabled by co-design) and open innovation.

Shared and porous participation is necessary, in fact, especially in projects aimed at circularity and sustainability, where the active role of the consumer and co-participation between responsible actors from different areas (political, economic, social, environmental) are essential for the success of the projects, and to face common challenges and high objectives, overcoming the logic of market competition.

In fact, project collaboration is a tool that fosters communication processes between the main actors of the Value Web (Bouwman & Janssen, 2010) - a supply chain that is no longer linear but interconnected - allowing lines of responsible innovation in the packaging system to be defined and collective steps to be taken to address current challenges.

It is also increasingly evident that "innovation thrives in an open environment, where interaction with various stakeholders is seen as a resource of competitive advantage", and not as a limitation (Blok & Lemmens, 2015).

In this context of responsible innovation, through a systemic supply chain approach and collaboration between actors, sustainability outcomes are achieved - despite the difficulties - that have a greater impact than they would as individual actors.

Session Chairs

Flaviano Celaschi, Packaging Innovation Observatory - Advanced Design Unit,
Department of Architecture - University of Bologna
Clara Giardina, Advanced Design Unit, Department of Architecture - University of
Bologna

Programme

14.30-15.00 *Greetings and Introduction*

Giacomo Bergamini, Rector's Delegate for Sustainability - Università di Bologna
Roberto Ricci Mingani, Head of Sector Sustainable Innovation, Enterprise, Production
Chains - Emilia-Romagna Region

15.00-16.00 ***Designing a circular transition by co-creating with all supply chain actors: open innovation and participation in decision-making and design processes***

Ladeja Godina Košir, Founder and Executive Director [Circular Change](#), Co-chair CG
ECESP

Alberto Palaveri, President – Giflex

Giulia Picerno, Study Centre for the Circular Economy - CONAI

16.00-17.15 ***Towards circularity: Italian best practices***

Valentina Folli, Art Director - Icma Sartorial paper: *a virtuous cycle to create high-end papers*

Alessandra Fazio, Chairwoman - Fondazione Carta Etica del Packaging: *a new packaging system culture for an ethical and conscious future*

Laura Taraborrelli, Sales Manager - ALISPED: *circular logistics in fashion sector*

Barbara Bonori, Research and Development - Comieco: *circularity in the cellulosic packaging chain*

17.15-17.30 Questions and Answers

Session Chairs' conclusions

THURSDAY 10
NOVEMBER

14:00 -
18:00

Agorà Energy 1
Pav. B7

Research and
Innovation
[Click here](#)

Africa Green Growth VERSIONE IN LINGUA ITALIANA

Language: English

Simultaneous translation: Italian

Organized by: Res4Africa, Ecomondo Scientific Technical Committee and Key Energy Scientific Technical Committee

[Book you seat](#)

The main objective of the *Africa Green Growth* forum is to foster the entrance of our Italian companies in the vast African market, promoting their advanced technology and integrated solutions that will be able to meet the needs of food, water, raw materials and energy supply. The two main focuses will be “Water Energy and Food Nexus”, and “Green Hydrogen”: at the same time, circular economy, bioeconomy and young entrepreneurship will also be under the spotlight.

With the support of the Italian Trade Agency, The Italian Ministry of Foreign Affairs and International Cooperation, The Italian Ministry of Ecological Transition, and the Italian Ministry of University and Research, Embassies of the target countries in Italy will be involved, along with African government representatives, associations, institutions and qualified media: this will allow them to introduce the guidelines on the above-mentioned sectors for the next 2-5 years. At the same time, commercial delegations will be welcomed to establish a solid network between the industrial and the institutional sector.

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Programme

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Speeches from African countries

- Morocco: (M. Benmeziane – Head of Communication and Technology Watch, Iresen)

Technical speeches

- L. Casadio – Business Development H2, P2X and Hybrid Solutions, Siemens-Gamesa
- N. Pierozzi – Carbon Reduction Excellence Technical Manager, Rina Corporate
- A. Meola - Business Development Director Consulting Division, CESI

3.30 p.m. – 3.40 p.m.

Technical break

3.40 p.m. – 4.40 p.m.

Innovative and sustainable initiatives for African countries

Opening from Representative of the Embassy of Kenya, Mr. Anthony Muriithi

Moderator: D. Guzzo – Access to Energy Officer, RES4Africa

Speeches from African countries (Key Energy-Ecomondo delegations)

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- Ghana: (M. Tuwor – Managing Director, Accra Compost Recycling Plant)

A. Karembu - Principal Renewable Energy Officer, African Development Bank

4.40 p.m. – 5 p.m.

End of works

5 p.m. – 5.45 p.m.

UNIDO ITPO Italy – Award Ceremony of the “FIPEE Call for High Impact Cleantech”

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Opening remarks

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- Ms. Cecilia Erba | Project Expert at the Italian Ministry of Ecological Transition - MiTE

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- Presentation of the winning project from Peru *awarded by Ms. Cecilia Erba, Project Expert at MiTE*

Closing remarks

- Ms. Sunyoung Suh | Project Coordinator at UNIDO Global Cleantech Innovation Programme (GCIP)

Moderator: Valentina Maltese | FIPEE project coordinator at UNIDO ITPO Italy

5.50 p.m. – 6.30 p.m.

Networking cocktail at Piazza della PA (pav. D7)

THURSDAY 10
NOVEMBER

14:00 -

18:00

Agorà Energy 1
Pav. B7

Research and
Innovation

[Click here](#)

Africa Green Growth FRENCH LANGUAGE VERSION

Language: English

Simultaneous translation: French

Organized by: Res4Africa, Ecomondo Scientific Technical Committee and Key Energy Scientific Technical Committee

[Book your seat](#)

The main objective of the *Africa Green Growth* forum is to foster the entrance of our Italian companies in the vast African market, promoting their advanced technology and integrated solutions that will be able to meet the needs of food, water, raw materials and energy supply. The two main focuses will be “Water Energy and Food Nexus”, and “Green Hydrogen”: at the same time, circular economy, bioeconomy and young entrepreneurship will also be under the spotlight.

With the support of the Italian Trade Agency, The Italian Ministry of Foreign Affairs and International Cooperation, The Italian Ministry of Ecological Transition, and the Italian Ministry of University and Research, Embassies of the target countries in Italy will be involved, along with African government representatives, associations, institutions and qualified media: this will allow them to introduce the guidelines on the above-mentioned sectors for the next 2-5 years. At the same time, commercial delegations will be welcomed to establish a solid network between the industrial and the institutional sector.

President of Session

R. Vigotti – Secretary General, RES4Africa

Programme

2 p.m. – 2.30 p.m.

Institutional speech on climate change

R. Vigotti – Secretary General, RES4Africa

A. Biancardi – Head of Institutional Affairs, GSE

2.30 p.m. - 3.30 p.m.

Renewable Energy and Green Hydrogen

Opening from the Minister Plenipotentiary of the Embassy of Morocco, Mr. Khalid Atlassi

Opening from the Representative of the Embassy of Egypt, Ms. Noha Syam

Moderator: P. Cutrone – MED Area Senior Program Manager, RES4Africa

Speeches from African countries

- Morocco: (M. Benmeziane – Head of Communication and Technology Watch, Iresen)

Technical speeches

- L. Casadio – Business Development H2, P2X and Hybrid Solutions, Siemens-Gamesa
- N. Pierozzi – Carbon Reduction Excellence Technical Manager, Rina Corporate
- A. Meola - Business Development Director Consulting Division, CESI

3.30 p.m. – 3.40 p.m.

Technical break

3.40 p.m. – 4.40 p.m.

Innovative and sustainable initiatives for African countries

Opening from Representative of the Embassy of Kenya, Mr. Anthony Muriithi

Moderator: D. Guzzo – Access to Energy Officer, RES4Africa

Speeches from African countries (Key Energy-Ecomondo delegations)

- Rwanda: (B. Uwimana – Rwanda's Ministry of Environment, Communication and Outreach Specialist)
- Kenya: (G. Katiambo - Founder, INNO-NEAT Energy Solutions)
- South Africa: (C. Edeh – Director, African Sustainable Energy Association)
- Ghana: (M. Tuwor – Managing Director, Accra Compost Recycling Plant)

A. Karembu - Principal Renewable Energy Officer, African Development Bank

4.40 p.m. – 5 p.m.

End of works

5 p.m. – 5.45 p.m.

UNIDO ITPO Italy – Award Ceremony of the “FIPEE Call for High Impact Cleantech”

FIPEE Call for High Impact Cleantech” of UNIDO ITPO Italy aimed to identify projects with high-impact potential cleantech innovations from Botswana, Cuba, Ethiopia, Kenya and Peru. Selected projects have received targeted support to enhance their investment-readiness and business competitiveness through a specific training acceleration program, and an ad hoc jury of experts chose the 5 winners, one for each country. The initiative is part of the FIPEE project (www.unido.it/FIPEE), implemented by UNIDO ITPO Italy and funded by the Italian Ministry of Ecological Transition.

Opening remarks

- Ms. Diana Battaglia | Head of UNIDO ITPO Italy
- Ms. Cecilia Erba | Project Expert at the Italian Ministry of Ecological Transition - MiTE

Winners presentation and award

- Presentation of the winner from Botswana *awarded by Ms. Kelebogile N. Kgathi, Economic Officer at the Embassy of Botswana to Belgium accredited to Italy*
- Presentation of the winning project from Cuba *awarded by Eng. Bladimir Matos Moya, First Vice President of INRH Cuba*

- Presentation of the winning project from Ethiopia *awarded by H.E. Demitu Hambisa Bansa, Ambassador of Ethiopia to Italy*
- Presentation of the winning project from Kenya *awarded by Eng. Benson Mwakina, Director of Renewable Energy at Ministry of Energy of Kenya*
- Presentation of the winning project from Peru *awarded by Ms. Cecilia Erba, Project Expert at MiTE*

Closing remarks

- Ms. Sunyoung Suh | Project Coordinator at UNIDO Global Cleantech Innovation Programme (GCIP)

Moderator: Valentina Maltese | FIPEE project coordinator at UNIDO ITPO Italy

5.50 p.m. – 6.30 p.m.

Networking cocktail at Piazza della PA (pav. D7)

THURSDAY 10
NOVEMBER

14:30 -
17:30

Noce Room A6
Pav

**Policies and
Regulations**
[Click here](#)

The start of the regulation for technical and contract quality of waste management: the impact on operators and local authorities

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Utilitalia

In 2022 ARERA (The Italian Regulatory Authority for Energy, Networks and Environment) continued the regulatory design process for municipal waste management introducing some very important measures. The Authority has identified and regulated the application of uniform criteria at the national level of the technical and contract quality of services, and has also defined minimum standards for information access on services quality by user. Furthermore, with the Tariff Method for Waste for the second regulatory period (2022-2025) the Authority has extended the tariff regulation to treatment services, identifying the criteria for defining the access tariffs to the plants. The conference aims to analyze the effect of the recent Authority measures on the operational activity of waste management operators, on their investment programs, and to assess how they can guide the future evolution of municipal waste management.

Session chair

Alessandro Cecchi, Executive Board of Utilitalia, Director of Regulatory Affairs Iren SpA

Programme

14.30 *Introduction and coordination by the Chairman*

Alessandro Cecchi, Executive Board of Utilitalia, Director of Regulatory Affairs Iren SpA

Governance, management, regulation: snapshots of the national situation

Francesca Mazzarella, Director of Utilitatis

Evaluation on the new regulatory measures

Paolo Carta, Director of Regulatory Affairs Utilitalia

Andrea Ferri, IFEL-ANCI (National Association of Italian Municipalities)

Vito Belladonna, scientific technical coordinator for municipal waste, National Association of Local Authorities for Water and Waste

Stefano Pozzoli, Co-director of the Maggioli Group "Public Utilities" online magazine

Panel discussion: operators' point of view on new regulatory measures

Moderator: Luca Mariotto, Director of Environmental Sector of Utilitalia

Ester Benigni, Head of Regulatory Affairs & Competition A2A

Filippo De Simoi, Head of Regulation and tariff systems Hera S.p.A.

Lella Miccolis, Sole Director Progeva

Luigi De Francisci, Head of Regulatory Acea

Sabino Persichella, President AMIU Puglia S.p.A. and Vice President Utilitalia

17.15 *Conclusions*

Lorenzo Bardelli, Director of Environment Division of Italian Regulatory Authority for Energy, Networks and Environment

THURSDAY 10
NOVEMBER

14:30 -
17:30

Diotallevi 2 Room
South Hall

**Sustainable
Remediation and
Regeneration of
Contaminated
Sites**

[Click here](#)

The States General for Soil Health - National session

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & European Mission A Soil Deal for Europe, Re Soil Foundation

According to the 'Caring for Soil is Caring for life' report published by the European Commission in 2020, 60-70% of all European soils are unhealthy due to current management practices, pollution, urbanization, and the effects of climate change: specifically, 25% of soils in southern, central, and eastern Europe are at high or very high risk of desertification, while today's rate of soil reuse is stuck at 13%. The estimated cost associated with soil degradation in the EU exceeds 50 billion euros/year. For these reasons, the health of this valuable non-renewable resource has been identified by the European Union as one of the 5 Missions - A Soil Deal for Europe - launched by the Commission to address science and innovation towards the challenges our society is facing. Soil becomes a key element of the Green Deal to support Europe's growth aimed at achieving zero net soil consumption by 2050. Soil protection contributes to further challenging goals such as reducing greenhouse gas emissions to the atmosphere by 55 percent by 2030 and achieving climate neutrality by 2050. In an increasingly uncertain economic and geopolitical context, in which Europe and Italy are facing a growing scarcity of raw materials, restoring the health of our soils, curbing their degradation and consumption will be crucial to increase our self-sufficiency and support the industrial revitalization of our country and Made in Italy. Today, in Italy, more than a quarter of the land is degraded and soil consumption causes our country to lose about 2 square meters/second. That's why the National Coordination Group for the Bioeconomy (CNBBSV) of the Presidency of the Council of Ministers, which also comprises the Ministry for Agricultural, Food and Forestry Policies – MIPAAF and the Ministry for Universities and Research - MUR, in collaboration with ISPRA, CREA and Re Soil Foundation (founded by University of Bologna, Coldiretti, Novamont and Turin Polytechnic), launches in Rimini the first States General for Soil Health conference, an open, shared and participatory advisory event which aims to set the course for soil regeneration, a non-renewable resource crucial to ensure life on Earth but increasingly at risk. The States General for Soil Health therefore intend to bring together the main national and international stakeholders and experts to draft a programmatic platform aimed at supporting the development of an Italian Soil Strategy, through the analysis of the environmental, economic, legislative and social scenario, of good practices and multidisciplinary and multi-actor existing projects, which are already providing answers in this direction. The States General for Soil Health will take place for the first time on 10 November 2022, with the aim of presenting the European policy framework in the morning session, and the state of the art at national level in the afternoon session.

Session Chairs

Sonia Filippazzi, Environmental journalist, RAI (TBC)
Anna Luise, DG GLO ISPRA

Programme

14.30 *Welcome*

Sonia Filippazzi, Environmental journalist, RAI

Anna Luise, DG GLO ISPRA

14.50 ***The Status of soil in Italy***

Soil consumption and degradation in Italy

Michele Munafò, SINA Manager, ISPRA

15.10 ***The Italian policy framework***

How to put soil at the core of the ecological transition

Silvano Pecora, Ecological transition and green investments department, Italian Ministry of Ecological Transition

Actions for Soil protection included in the CAP Strategic Plan

Antonio Papaleo, CREA

Affrontare il tema a livello regionale

Francesca Assennato, ISPRA

Germana Di Falco, Regione Campania

15.50 **Panel discussion - *The associations' voice***

Maria Letizia Gardoni, President of Coldiretti Bio

Massimo Centemero, General Director, Consorzio Italiano Compostatori

Piero Gattoni, President of Consorzio Italiano Biogas

16.20 ***Restarting with research and education***

The Soil Hub project

Roberta Farina, Researcher, CREA

The Italian Lighthouse Farms network

Sara Guerrini, Public affairs agriculture Novamont, member of Re Soil Foundation

Dissemination and education activities

Margherita Caggiano, Communication Manager, Re Soil

17.00 ***The importance of research and funding for soil protection and regeneration: what more could be done?***

Introduction:

Walter Ganapini, Re Soil Foundation TSC President

Michele Mazzola, Dirigente Ufficio ricerca internazionale MUR

17.20 Conclusions

THURSDAY 10

NOVEMBER

16:30 -

18:00

Agorà Efficiency

pav. B6

[Click here](#)

The holistic approach to building decarbonization: Energy, Water, Air and Matter

Language: Italian

Organized by: Green Building Council Italia

Combating climate change sees the construction and real estate sectors heavily involved due to their contribution in terms of emissions: they are responsible for more than one-third of global carbon dioxide emissions. As a result, there is a strong interest in managing the de-carbonization of this sector. The holistic approach to this goal allows a comprehensive assessment of the performance of buildings and the built environment in all its components while maximizing the reduction of CO2 equivalent emissions. This approach is the basis of the Minimum Environmental Criteria Decree for public buildings, which in the new version of June 23, 2022, introduces some new elements that reward the supply chain to approach new construction and renovation with a Whole Life Carbon vision.

Moderation

Marco Caffi, Green Building Council Italy

Program

16.30-16.40 Introduction

16.40-17.10

The new building CAMs and full life cycle impact

Sergio Saporetti - Ministry of Ecological Transition *

17.10-18.00

The contribution of materials

Envelope efficiency in the whole life cycle - Wienerberger

Efficiency and LCA of openings - LegnoLegno Consortium*

Resource optimization and circularity of envelopes - Interface

Emissions and the healthiness of finishing materials - MP Colorificio

18.00-18.20

The measurement of the environmental impact of materials in the life cycle

Ugo Pannuti - ICMQ

18.20 - 18.30

Discussion and closing remarks

* Invitees awaiting confirmation

FRIDAY 11 NOVEMBER

FRIDAY 11
NOVEMBER

09:30 -
13:00

Ravezzi 2 South
Hall

**Financing,
Education and
Communication**
[Click here](#)

The skills challenge for the workforce transition

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & ASviS

The topic of the availability of skilled workforce in an appropriate quality and quantity, of the upskillig and reskilling, is key to addressing the green transition, achieving on the ground the same goals of the national recovery and resilience plan, making our production system competitive and resilient, and preparing our society for the future challenges. Given that transition processes impose both speed and effectiveness, it is of utmost urgency to implement strategic planning for skills, defining scientific content, ambitious policy agendas through a participatory dialogue between government, business, academia, trade unions, and other stakeholders, while also pursuing social inclusiveness goals. Building on the theoretical-scientific elaboration and policy goals already adopted at the EU level, the conference aims to contribute to accelerating the debate on this critical issue.

Session Chairs

Pierluigi Stefanini, President of ASviS (Italian Alliance for Sustainable Development)
Fabio Fava, President of Ecomondo Scientific Technical Committee and Full Professor at University of Bologna

Programme

9.30 Introduction by the Session Chairs

9.45-10.45

The core contents of a quality training for the green transition

Guia Bianchi, co-author of the GreenComp study - EU Commission, JRC

Reflections and elements of an assessment of workforce upskillig and reskilling needs in Italy, variables, uncertainties, economic sectors most affected, planned policies and implementation tools

Giuditta Alessandrini, ASviS Secretariat

10.45-12.15 *Roundtable discussion*

Moderated by: Giacomo Bottos, Director of Pandora magazine

Mauro Lusetti, President of Legacoop (TBC)

Gianna Fracassi, Deputy Secretary CGIL

Patrizia Lombardi, President of RUS (Italian network of universities for sustainable development)

Elly Schlein, Vice President of Emilia-Romagna Region, with powers to combat inequalities and the ecological transition (TBC)

12.15-12.45 Discussion and Closure by the Chairs

Andrea Orlando, Ministry of Labor (TBC)

Pierluigi Stefanini, President of ASviS

FRIDAY 11
NOVEMBER
09:30 -
13:15

Global Water Expo
Room D1 pav.

**Policies and
Regulations**
[Click here](#)

Water-smart Governance and Regulation - Taxonomy and innovation based regulation for decarbonisation in water sector: opportunities and limits

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & ARERA, UTILITALIA and REF Ricerche Laboratory

The EU taxonomy and proper water regulatory framework could play an important role helping the EU scale up sustainable investment and implement innovations to achieve the European green deal targets. The Do No Significant Harm principle (DNSH) is also central in national NRRPs, which may not cause any significant harm to the environment. In Italy water regulation has already provided significant progress towards technical, economic and environmental sustainability. Further steps have been considered even to support the successful implementation of measures to achieve the Green Deal objective. By dialogue with water authorities, industries and utilities, the workshop will provide state of the art and future steps to optimize water governance.

Session Chair

Andrea Guerrini, Ecomondo STC and ARERA (Italian Regulatory Authority for Energy, Networks and Environment)

Programme

9.30-10.00 Registration Desk

10.00-10.10 *Opening address*
Donato Berardi, REF Ricerche

10.10-10.30 *Effect of UE Taxonomy: case studies and inter-links with ARERA regulations for decarbonization*
Samir Traini, REF Ricerche

10.30-10.50 *Road map, drivers and solutions for climate smart water utilities*
Francesco Fatone, Marche Polytechnic University

10.50-11.10 *Governance and regulation for wastewater reuse*
Gaia Rodriguez, Utilitalia (Italian federation of energy, water and environmental services)
Francesco Vincenzi, ANBI (National Association of Consortia for the Management and Protection of Land and Irrigated Waters)

11.20-13.00 Panel Discussion
Moderated by Giordano Colarullo, Utilitalia

Tullio Montagnoli, A2A Ciclo Idrico
Susanna Zucchelli, HERA
Alessandro Cecchi, IREN
Luigi De Francisci, ACEA
Serena Malomo, Gruppo CAP
Lorenzo Persi, MM
Armando Quazzo, SMAT
Francesca Portincasa, AQP
Monica Manto, Viveracqua

13.00-13.15 Discussion and Closure
Andrea Guerrini, ARERA (Italian Regulatory Authority for Energy, Networks and Environment)

FRIDAY 11
NOVEMBER

10:00 -
13:00

Bio-based Industry
Room D1 pav.

**Agri-food,
Forestry and Bio-
based Industry**
*Conference open to
Papers*
[Click here](#)

New frontiers for forestry chains: policies and governance to give value to a strategic resource for the Country

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Confagricoltura, Tuscia University, University of Molise

CALL FOR PAPERS

The last year and a half saw the publication of the European forest strategy and immediately after that of the national one, highlighting how the political context is increasingly attentive to the enhancement of forest resources, wood production and the effeSTC of the sector in the climatic, economic and social fields. In the last period, the rapid changes in the international geopolitical framework are driving new economic scenarios and development opportunities for the forestry sector, which is once again central to the self-procurement strategies of raw materials of individual countries. In this context, the development of a real forest bioeconomy can be the pivot to start the establishment of competitive, cohesive and innovative supply chains that produce at the same time renewable produSTC and ecological benefits, capable of guaranteeing permanence in rural and mountain areas, as well as ecosystem services of great value for city inhabitants.

Session Chairs

Marco Marchetti, University of Molise
Enrico Allasia, President of Confagricoltura (General Confederation of Italian Agriculture) Federation of forest resources and wood

Programme

10.00 *Introduction*

Marco Marchetti, University of Molise

10.20 *The national forestry strategy and economic support to the sector*

Alessandra Stefani, General manager Forestry department Italian Ministry of Agriculture

10.35 *A frame that is changing*

Davide Pettenella, Tesaf Padova University

11.50 *Bioeconomy frontiers: from European policies to regional realities*

Inazio Martinez de Arano, Coordinator of the EFI Bioregions facility

11.05 *The role of agronomists and foresters*

Sabrina Diamanti, President of CONAF

11.20 *The word to forestry owner*

Tim Hartl, The Confederation of European Forest Owners (CEPF)

Enrico Allasia, President of Confagricoltura Federation of forest resources and wood

Livio Bozzolo, President of CONAIBO

11.40 *Case studies*

Lamel legno

Consorzio Legno Veneto

12.40 **Call for papers**

Governing the ecological transition and protecting ecosystem services that make production systems resilient

Barbara Cavalletti, UniGe, Liguria Region

FOstering Research and Ecological Solutions for (green) Transition, the FOREST Project

Pasqualina Sacco, Unibz, Fraunhofer Italia Research

Light chipper for MOUNTAIN TERRITORIES in Emilia Romagna (CLEAN-ER project)

Mia Marchini, CINSA

Biomaterials from nanotechnologies for the recovery of waste from the agroforestry chain

Daniele Bianconi, CNR, Unitus

13.00 *Conclusions*

Poster session

AFB11 – 1 *Foreste metropolitane: strumenti e progetti sviluppati dalla Città metropolitana di Bologna*

Valeria Stacchini, Città metropolitana di Bologna

AFB11 – 2 *INWIT: impatti e opportunità di un Tower Operator sulla biodiversità delle aree boschive*

E. Cardinale - INWIT S.p.A., D. Giraldi - ambiente S.p.A.

AFB11 – 3 *Nuove frontiere della filiera forestale con l'impiego della paulownia*
Mario De Nardo

AFB11 – 4 *Forest Assessment: Biomass as Energy Resource (progetto FABER)*
Mia Marchini, Sandro Cornali, Roberto Reggiani (Azienda Agraria Sperimentale Stuard, Parma); Nelson Marmiroli, Elena Maestri, Marco Errani, Michele Donati (Consorzio Interuniversitario Nazionale per le Scienze Ambientali - CINSIA, Parma); Antonio Mortali, Miriam Taburoni (Consorzio Comunalie Parmensi, Parma)

FRIDAY 11
NOVEMBER

10:00 -
13:00

Neri 1 Room South
Hall

**Circular
Economy Value
Chains**
[Click here](#)

End of life vehicles: towards the new ELV directive

Language: Italian

Organized by: Ecomondo Scientific Technical Committee & Assoambiente

The European directive on end-of-life vehicles (2000/53/EC), adopted over 20 years ago, largely achieved the very ambitious objectives and challenges it set at the time: freeing the environment from abandoned cars, establishing minimum requirements for the management of waste from ELVs and set targets for reuse / recycling / recovery of ELVs. Directive 2000/53 / EC was also the first waste legislation to introduce provisions on producer responsibility. It is an excellent example of an instrument at the service of the circular economy. Today, twenty years later, the challenges are different, the design, technologies and materials have changed and the directive needs to be adapted accordingly.

For this reason after a first evaluation of the ELV directive by the European Commission. the car end-of-life sector awaits the proposal to revise the ELV directive, presumably adopted by 2022. The representatives of the car end-of-life sector are discussing it.

Session Chairs

Paolo Barberi, Unicircular - Assoambiente section

Programme

10.00 Introduction and greetings by the Chair

10.20-10.40 *The new ELV directive: presentation and analysis of the proposal*
Jaco Huisman, ELV - DG ENVIRONMENT B3

10.40-11.00 Hank Jan Nix, EGARA - European Group of Automotive Recycling Associations

11.00-12.30 Panel discussion

Ruggero Del Vecchio, AdQ - Associazione Nazionale Autodemolitori di Qualità
Antonio Cernicchiaro, UNRAE - Unione Nazionale Rappresentanti Veicoli Esteri
Luca De Vita, ANFIA - Associazione Nazionale Filiera Industria Automobilistica
Stefano Leoni, AIRA - Associazione Industriale Riciclatori Auto
Anselmo Calò, ADA - Associazione Demolitori Autoveicoli

12.30 Debate and conclusions

FRIDAY 11
NOVEMBER

10:00 -
13:30

Ravezzi 1 Room
South Hall

Research and
Innovation
[Click here](#)

Earth Observation for Sustainable and Green Transitions ITALIAN LANGUAGE VERSION

Language: English

Organized by: Ecomondo Scientific Technical Committee & Polytechnic University of Turin

The most recent events, from the pandemic to the Ukrainian conflict, have forced us to pay great attention to the fragility of the environment in which we live but also to the international relations that have been established and the rise of the new economies. This moment of great uncertainty also leads to redefining sustainable transitions from both a climatic and energy point of view by reshaping resilient circular economies enabled by analytical techniques founded on a data driven approach. From this point of view, earth observation, and the open data generated, play a fundamental role by allowing, thanks to their synoptic vision, to conduct multispectral and multitemporal analysis capable of extracting added value information, fundamental for the understanding phase of the problems and the implementation of consequent policies, from agriculture to bio & blue economy, to biobased industry.

Session Chairs

Giovanni Federigo De Santi, Polytechnic University of Turin & Former Director DG JRC EU Commission

Giuseppe Padula, University of San Marino

Piero Boccoardo, Polytechnic University of Turin

Programme

10.00 *Opening-welcome address*

Stephen Quest, Director General DG JRC European Commission

Charlina Vitcheva, Director General DG MARE European Commission

10.20-12.00 **Part I: The Institutional framework**

Giovanni Federigo De Santi, Polytechnic University of Turin & Former Director DG JRC EU Commission

Giuseppe Padula, University of San Marino

Introduction: the new challenge ahead

Giovanni Federigo De Santi, Polytechnic University of Turin & Former Director DG JRC EU Commission

The Space Paradigm

Earth Observation and cutting-edge spaceborne technology to understand the planet
Pierluigi Silvestrin, ESA ESRIN

The European Copernicus Programme: new challenges in a changing world
Mauro Facchini, European Commission, DG DEFIS, HoU

The Italian Copernicus strategy
Andrea Taramelli, IUSS Pavia

Italian National Plan for Resilience and Recovery (PNRR): the Space-Partnership
Stefano Corgnati, Politecnico di Torino, Vice-Rector

Earth Observation Up-take

The Italian forest strategy. Policies for a sustainable future
Alessandra Stefani, Italian Ministry for Agriculture, Food and Forestry Policies,
Director General

City of Turin: urban Digital Twin for a smart city
Alessandra Cimadom, Municipality of Turin, Director General

European Green Deal : Strategies and plans for Blue Economy
Delilah Al Khudhairy, European Commission DG MARE, Director

Science and innovation for a competitive and sustainable Bioeconomy
Alessandra Zampieri, European Commission DG JRC, Director

12.00-13.00 **Part II: The operational framework**

Piero Boccardo, Polytechnic University of Turin

Introduction: from practices to policies
Piero Boccardo, Polytechnic University of Turin

The European Earth Observation-Knowledge Center
Ivan Kulis and Mark Dowell (DG JRC), Mauro Facchini (DG DEFIS) European
Commission

The Blue Economy Observatory
Jann Martinsohn and Michela Ghiani (DG JRC), Frangiscos Nikolian (DG MARE)
European Commission

*Cineca and the ECMWF: industrial and environmental impact of High-Performance
Computing*
Sanzio Bassini, Cineca, Italy

Digital Twin Consortium and the initiative of Predictive Earth Digital Twin
Dan Isaacs, CTO Digital Twin Consortium

How new technologies improve agriculture: the experience in Tuscany Region
Marco Vieri, University of Florence
Marco Antoni, Copernico

Unleashing the power of underwater wireless for aquaculture digitalization
Chiara Petrioli, WSense Srl

13.15-13.30 Question time: Open Discussion

Closure by the Chairs

FRIDAY 11
NOVEMBER

10:00 -
13:30

Ravezzi 1 Room
South Hall

Research and
Innovation

[Click here](#)

Earth Observation for Sustainable and Green Transitions

Language: English

Organized by: Ecomondo Scientific Technical Committee & Polytechnic University of Turin

The most recent events, from the pandemic to the Ukrainian conflict, have forced us to pay great attention to the fragility of the environment in which we live but also to the international relations that have been established and the rise of the new economies. This moment of great uncertainty also leads to redefining sustainable transitions from both a climatic and energy point of view by reshaping resilient circular economies enabled by analytical techniques founded on a data driven approach. From this point of view, earth observation, and the open data generated, play a fundamental role by allowing, thanks to their synoptic vision, to conduct multispectral and multitemporal analysis capable of extracting added value information, fundamental for the understanding phase of the problems and the implementation of consequent policies, from agriculture to bio & blue economy, to biobased industry.

Session Chairs

Giovanni Federigo De Santi, Polytechnic University of Turin & Former Director DG JRC EU Commission

Giuseppe Padula, University of San Marino

Piero Boccardo, Polytechnic University of Turin

Programme

10.00 *Opening-welcome address*

Stephen Quest, Director General DG JRC European Commission

Charlina Vitcheva, Director General DG MARE European Commission

10.20-12.00 **Part I: The Institutional framework**

Giovanni Federigo De Santi, Polytechnic University of Turin & Former Director DG JRC EU Commission

Giuseppe Padula, University of San Marino

Introduction: the new challenge ahead

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The European Copernicus Programme: new challenges in a changing world

Mauro Facchini, European Commission, DG DEFIS, HoU

The Italian Copernicus strategy

Andrea Taramelli, IUSS Pavia

Italian National Plan for Resilience and Recovery (PNRR): the Space-Partnership

Stefano Corgnati, Politecnico di Torino, Vice-Rector

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The Italian forest strategy. Policies for a sustainable future

Alessandra Stefani, Italian Ministry for Agriculture, Food and Forestry Policies,
Director General

City of Turin: urban Digital Twin for a smart city

Alessandra Cimadom, Municipality of Turin, Director General

European Green Deal : Strategies and plans for Blue Economy

Delilah Al Khudhairy, European Commission DG MARE, Director

Science and innovation for a competitive and sustainable Bioeconomy

Alessandra Zampieri, European Commission DG JRC, Director

12.00-13.00 **Part II: The operational framework**

Piero Boccardo, Polytechnic University of Turin

Introduction: from practices to policies

Piero Boccardo, Polytechnic University of Turin

The European Earth Observation-Knowledge Center

Ivan Kulis and Mark Dowell (DG JRC), Mauro Facchini (DG DEFIS) European
Commission

The Blue Economy Observatory

Jann Martinsohn and Michela Ghiani (DG JRC), Frangiscos Nikolian (DG MARE)
European Commission

*Cineca and the ECMWF: industrial and environmental impact of High-Performance
Computing*

Sanzio Bassini, Cineca, Italy

Digital Twin Consortium and the initiative of Predictive Earth Digital Twin

Dan Isaacs, CTO Digital Twin Consortium

How new technologies improve agriculture: the experience in Tuscany Region

Marco Vieri, University of Florence

Marco Antoni, Copernico

Unleashing the power of underwater wireless for aquaculture digitalization

Chiara Petrioli, WSense Srl

13.15-13.30 Question time: Open Discussion

Closure by the Chairs

FRIDAY 11
NOVEMBER

11:00 -
13:00

Reclaim Expo
Room C1 Pav.

**Sustainable
Remediation and
Regeneration of
Contaminated
Sites**

[Click here](#)

Technological innovation in bioremediation demonstrated in Europe and China

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee & Electra (H2020 partners)

The ELECTRA project aims to jointly develop and test highly innovative bio-electrochemical systems-based remediation biotechnologies at laboratory scale in environmentally relevant conditions and bring the four most efficient technologies to the field in both China and Europe.

A diverse set of technologies has been developed because: (i) the matrices in which pollution occurs are highly diverse, requiring different approaches, (ii) the types of pollutants to be addressed is equally diverse, and (iii) multiple technologies have been tested and brought at pilot stage.

The workshop is targeted at professionals from the bioremediation and remediation sector, which are interested in new treatment technologies. It will also discuss remediation market opportunities for European companies in China.

Session Chair

Prof. Philippe Corvini, FHNW, Switzerland

Programme

11.00 Introduction by the administrative coordinator

Prof. Philippe Corvini, FHNW, Switzerland

11.05-11.25 *Scientific overview and introduction to bioelectrochemical systems*

Prof. Korneel Rabaey, Electra Scientific Coordinator and University of Gent, Belgium (on-line talk)

11.25-12.25 *Presentation of the 4 most efficient technologies and their performances at pilot sites*

Prof. Sebastia Puig, University of Girona, Spain

12.25-12.40 *Challenges and opportunities of environmental technologies in penetrating the Chinese market*

Abraham Nunez, Metfilter, Spain

12.40-12.45 *Where can you find technical documents and scientific publications resulting from Electra project?*

Prof. Nicolas Kalogerakis, TUC, Greece

12.45-13.00 Roundtable discussion with the participants

13.00 End of the workshop (by the chair)

FRIDAY 11
NOVEMBER

11:30 -
13:00

Agorà Efficiency
pav. B6
[Click here](#)

Urban regeneration: the synergy of the city scale for the ecological transition of the built environment

Language: Italian

Organized by: Green Building Council Italia

In the recent period we are witnessing a proliferation of individual building redevelopment actions, driven by incentive measures. This initiative is often confused as urban regeneration action. Urban regeneration is not simply the redevelopment of blighted buildings or reconstruction in an abandoned area. Urban regeneration is an action that also involves the cultural and social spheres, the ultimate goal of which is to give back to citizens an area that can be experienced to the fullest, both environmentally and culturally. The goal of urban regeneration is to help make cities sustainable and more people-friendly, limiting the consumption of land and building land by exploiting the energy, environmental and social synergies that the network of buildings and infrastructure can generate.

Moderation

Marco Caffi, Green Building Council Italy

Program

11:30-11:40 Introduction

11:40-12:00

The dimension of urban regeneration

Andrea Boeri - University of Bologna*

12:00-12:20

Reinventing Cities, the experience of C40 cities

Manuela Ojan - AMAT Milan

12:20-12:40

Energy synergies at the city scale

Andrea Costa - R2M

12:40-13:00

The role of multi utilities in urban regeneration

Manuela Baudana - A2A*

13:00

Discussion and closing remarks

* Invitees awaiting confirmation

FRIDAY 11
NOVEMBER

14:00 -
17:00

Global Water Expo
Room D1 pav.

**Water
Management
and Valorization**
[Click here](#)

Enhancing the added value of Water JPI's research and innovation projects for more informed policy making decisions and market uptake of innovations

Language: English

Simultaneous translation: Italian

Organized by: Water JPI

Launched in 2011, the Water JPI is a Member States-driven initiative that aims to achieve sustainable water systems through a wide range of activities. The Water JPI has supported more than a hundred research and innovation projects in the areas of water pollution, water technologies, ecosystems and biodiversity, water quantity in the face of hydroclimatic extreme events and international cooperation. In order to make a real impact on our society, the Water JPI wishes to implement a valorisation-oriented strategy through which most promising results can be further promoted to support policy making or enhance their market uptake. In this context, the aims of this seminar are: (i) To tease out existing barriers for the valorisation of research results for policy or market use; (ii) to identify possible strategies for valorisation at both the European and international levels, in cooperation with project coordinators and the audience; (iii) to come up with an action plan based upon key lessons and recommendations.

Session Chairs

Esther Diez Cebollero, Water JPI Coordinator

Giuseppina Monacelli, Water JPI Chair

Programme

14.00-14.15 *Presentation of the Water JPI and the objectives of the workshop*

Esther Diez Cebollero, Water JPI Coordinator

Giuseppina Monacelli, Water JPI Chair

14.20-15.45 Projects presentation

14.20-14.35 *MARadentro*

Dr. Silvia Díaz Cruz

14.35-14.50 *iAquaduct*

Pr. Salvatore Manfreda

14.50-15.05 *Bloowater*

Maria Sighicelli, PHD

15.05-15.20 *FLUXMED*

Dr. Serena Sirigu

15.20-15.35 *SIMTWIST*

Dr. Elena Toth

15.45-16.45 Introduction - The WHOW project experience on data sharing. *Round table and discussion*

Dr. Marco Picone ISPRA

Projects coordinators and chairs

16.45-17.00 *Further steps: Presentation of Water4All, conclusion and remarks*

Esther Diez Cebellero

FRIDAY 11
NOVEMBER

14:00 -
18:15

Diotallevi 2 Room
South Hall

Research and
Innovation
[Click here](#)

Innovative experiences of Circular economy and Blue Growth in the Western Balkans

Language: English

Simultaneous translation: Italian

Organized by: Ecomondo Scientific Technical Committee & Interreg ADRION Programme and APRE

Circular economy is the cornerstone of the ambitious plan of the European Green deal aiming to make Europe the first climate-neutral continent. The Interreg ADRION Programme and Horizon Programmes are supporting the pursuit of a zero-impact economy by encouraging the cooperation between EU and non-EU countries and take relevant measures to progressively de-couple resource consumption from economic growth. Western Balkans countries are involved in all ADRION funded projects through the cooperation with sister agencies, institutions, and organisations across the Adriatic-Ionian region, same as for Horizon programmes as strategic partners in R&I. This seminar is aimed at showcasing results, good practices and experiences on circular economy developed thanks to this transnational cooperation. It will be possible to have a closer look into some specific practices used to increase and spread knowledge on practical viability of circular economy principles, through a participatory and collaborative approach, involving research, innovation and business actors, public authorities, as well as civil society. Moreover, the seminar will be aimed at highlighting the tight connection between circular economy and blue growth, where circular economy principles of sustainability and reuse may apply also to the aquatic ecosystems. Invited speakers will provide an additional focus on blue economy in relation to the challenges and opportunities for the Western Balkans, the whole Adriatic-Ionian area and the entire European ecosystem.

Session chair

Andrea Bianchini, Policy Officer - Structural Funds, European Territorial Cooperation, Alpine Convention, European Commission, DG Environment

Programme

Innovation on Circular economy in the Western Balkans

14.10-14.20 Introduction

The Programme's impact on circular economy in the Western Balkans

Lodovico Gherardi, ADRION Programme Coordinator, Regione Emilia-Romagna
Serena Borgna, APRE – Agency for the Promotion of European Research

14.20-15.20 *Circular Innovation and Resilient City Labs: the case of the project Circle*
 Marco Affronte, Municipality of Forlì, Italy
 Slaviša Jelisić, Municipality of Laktasi, Bosnia-Herzegovina (TBC)

The challenge of post-industrial regeneration: proGInreg project
 Laura Ribotta, Municipality of Turin, Italy

15.20-16.20 *Biobased economy: challenges and progress in the Mediterranean region*
 Chiara Dall'Aglio, Sviluppumbria S.p.A. Società Regionale per lo Sviluppo Economico dell'Umbria, Italy
 Milica Vračarić, Regional Agency for the Development of Small and Medium Size Enterprises Alma Mons Ltd. - Novi Sad, Serbia
 Stefano Valentini, ART-ER, Italy

16.20-16.30 Discussion and Closure

BREAK (16.30-16.40)

Blue Economy in the Western Balkans between challenges and opportunities

Session chair

Andrea Bianchini
 Policy Officer - Structural Funds, European Territorial Cooperation, Alpine Convention
 European Commission, DG Environment

16.50-18.00 *Marine pollution, the challenge of Blue Economy: the case of SEAVIEWS project*
 Nikolaos Ventikos, National Technical University of Athens

Cooling Buildings with Seawater: the sustainable solution of SEADRION project
 Tibor Bešenec, University of Zagreb, Croatia
 Artan Leskoviku, Ministry of Infrastructure and Energy - National Agency of Natural Resources, Albania

Exploring the potential of the Blue Economy in the Western Balkans, an outlook of the Blue Air project
 Cristian Springer, Croatian Chamber of Economy
 Nataša Bojkovic, University of Belgrade

18.00-18.10 Discussion and Closure