





MatER & Final Sinks Meeting 2021 | 7-8-9 June **Recovery & Final Sinks for an Effective Waste Management**

Virtual Event	
Monday, June 7 th 2021	
MORNING PLENARY SESSION	
Session 1: Waste Management	
Chairman: prof. Stefano Consonni	
9:15 Welcoming Addresses & Introduction	Stefano Consonni - MatER/Politecnico di Milano
9:30 KEYNOTE LECTURE: How to measure the quality of materials management and recycling?	Helmut Rechberger - TU Wien, Austria
10:00 Waste Management in Emilia-Romagna Region	Giuseppe Bortone, ARPAE Emilia Romagna
10:20 Waste Management in Lombardia Region	Elisabetta Confalonieri, Regione Lombardia
10:40 Waste Management in Piemonte Region	Paola Molina, Regione Piemonte
11:00 Break	
11:20 The increasing amount of bioplastics rises challenges in the management of organic municipal solid wastes thro biological systems	^{ugh} Mirko Cucina - Un. Milano
11:45 The role of bioplastics in packaging and their impact in the waste management system	Giovanni Gadaleta - Politecnico di Bari
12:10 Equivalent inhabitants: a new parameter in the waste sector	Chiara Magrini - Un. Bologna
12:35 How the environmental sustainability of WEEE plastics management can be enhanced: an LCA study	Giovanni F. Cardamone - Un. Campania
13:00 Break	
AFTERNOON PARALLEL SESSIONS	
Session 2.A: Biowaste & Biogas	
Chairman: Prof. Mario Grosso	
14:30 KEYNOTE LECTURE - Title to be defined	David Bolzonella, Un. Verona
15:00 Biowaste mass balance analysis and future prospects in Campania region	Alberto Grosso - ARPA Campania
15:25 Bioenergy from green waste through anaerobic digestion: substrate, biogas, and digestate characterisation at la scale	^{ab-} Adele Folino - Un. Urbino Carlo Bo
15:50 Flash Presentation Poster#1 - Environmental evaluation of hydrothermal carbonization applied to the organi	c Lidia Lombardi - Un. Niccolò Cusano
16:00 Break Break	
16:20 Evaluation of the biochemical methane potential of intermediate and final outputs from biostabilisation MBT	Fabio Tatàno - DiSPeA, Un. Urbino Carlo Bo
16:45 Dry anaerobic digestion for biopolymers recovery from organic fraction of municipal solid waste	Elena Rossi - DESTEC – Un. Pisa
17:10 Pectin green extraction from citrus waste: preparation, characterization and future applications of pectin hincomnosites	Domenico Zannini - IPCB-CNR
Session 2.B: Innovation & Circular Economy	
	Chairman: Prof. Lucia Rigamonti
14:30 KEYNOTE LECTURE - New strategies, trends and financing models for Circular Economy	Daniela Sani, Art-ER
15:00 Waste logistics optimisation in practice: bringing industry 4.0 paradigms into operations management	Matteo Pozzi - Optit srl
15:25 Environmental impact of refrigerant during maintenance and disposal through Montreal Protocol and its amendments in Taiwan	Fei Chiao Yang - National Taiwan University
15:50 Flash Presentation Poster#2 - Mapping industrial waste recyclability: a circular economy approach	Qudsia Kanwal - Tsinghua University, China
16:00 Break	
16:20 Development of innovative circular cementitious materials containing waste	Alice Sirico - Un. Parma
16:45 Social Cost Benefit Analysis of Concrete Waste Recycling in Vietnam	Ngoc Han Hoang - National Institute for
	Environmental Studies, Vietnam
17:10 An autonomous and integrated evaluation framework for retrofitting resource recovery facilities	Rui-An Lin - National Taiwan University
17:35 Final Discussion & First Day Closing	
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MatER Study Center (Materials and Energy from Refuse) is a project undertaken by LEAP s.c.a r.l. with the scientific support of DICA and the Energy Department of the Politecnico di Milano, with the coordination of Utilitalia.

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The key objective of MatER is to provide a rigorous representation of technologies and policies adopted for the recovery of materials and energy from waste, helping to identify the most effective choices for a sustainable waste management.







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Tuesday, June 8th 2021 MORNING | PLENARY SESSION Session 3: Material Recovery Chairman: Prof. Stefano Cernuschi 9:30 KEYNOTE LECTURE: Comparing the costs and benefits of virgin and urban mining Xianlai Zeng - Tsinghua University, China 10:00 Case studies: Integrated residual municipal waste treatment combining material from waste, organic recovery Christophe Cord'homme - CNIM, France and energy from waste 10:25 Inclusion of the quality of recovered materials in waste management LCA studies Lucia Rigamonti - Politecnico di Milano 10:50 Flash Presentation Poster#3 - Resilience reinforcement and circular transition of cities by role Li-Heng Chen - National Taiwan University transformation of water system hotspots with EDI technology 11:00 Break 11:20 Quality constraints for steel scrap recycling- A detailed analysis of scrap quantities and qualities arising the Johann Fellner - TU Wien, Austria European Union The environmental performance of enhanced metal recovery from dry municipal solid waste incineration 11:45 bottom ash Melanie Haupt - ETH Zurich, Switzerland 12:10 Salt recovery potential of calcium-based APCr from MSWI Ekaterina Korotenko - ICPF, Czech Republic Filippo Stringa - ERION COMPLIANCE 12:35 Lions2Life: from waste batteries to sustainable distributed energy storage ORGANIZATION S.C.A R.L. 13:00 Break AFTERNOON | PLENARY SESSION Session 4: Waste to Energy Chairman: Prof. Federico Viganò 14:00 KEYNOTE LECTURE: Waste-to-Energy roadmap towards the European Green Deal Ella Stengler - Managing Director of CEWEP An industrial symbiosis - based solution to face integrated management of waste and wastewater in large 14:30 Giuseppe Mancini - Un. Catania Mediterranean cities From Waste-to-Energy to Waste-to-Gas - a possible new scenario in the energy recovery from municipal solid 14:55 Antonio Castorini - TBF+Partner AG waste Lidia Lombardi - Un. Niccolo Cusano 15:20 Comparing alternative options for residual municipal solid waste recovery 15:45 Flash Presentation Poster#4 - Analysis of working principles of modern controllers in combustion Damir Zibrat - Technikgruppe, Austria optimisation on forward moving reciprocating grates 15:55 Break 16:15 The effect of syngas steam concentration on the tar removal by activated carbons Carmine Boccia - Un. Campania 16:40 Incineration bottom ash potential and utilization in the Czech Republic Michal Šyc - ICPF, Czech Republic Hubert de Chefdebien - CNIM, France 17:05 ESSEVA study by SVDU – Mercury behaviour, monitoring and treatment in Energy-from-Waste facilities Final Discussion & Second Day Closing 17:30 Wednesday, June 9th 2021 VIRTUAL TECHNICAL VISIT Virtual room opening 09:30 Virtual tour of industrial plants technical presentations by sponsors 13:00 **Meeting Closing** The MatER & Final Sinks Meeting 2021 is SPONSORED by: With the support of:

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