



3rd Symposium on Circular Economy and Sustainability

Programme



**Chania, Crete, Greece
27-29 June 2022**

Organisers



ΠΟΛΥΤΕΧΝΕΙΟ ΚΡΗΤΗΣ
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OF CRETE



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Programme and Invitation to Register

3rd Symposium on Circular Economy and Sustainability

**Chania, Crete, Greece
27-29 June 2022**

Organised by

School of Production Engineering and Management, Technical University of
Crete

Department of Economics and Sustainable Development, Harokopio
University of Athens

International Network for Economic Research (INFER)

Department of Environmental Engineering, Democritus University of Thrace
Region of Crete

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Laboratory of Energy and Policy of Energy and Environment (LAPTEE)

United Nations Centre for Regional Development (UNCRD)

INTRODUCTION

A lot of discussion has been initiated in policy forums regarding the transition from the traditional linear to a circular economic approach. Today, circular flow of income shows financial and non-financial interrelations among economic agents (e.g. companies, households and governments) and natural environment through green GDP and satellites accounts. The most effort has been made to eliminate waste production from such agents without taking into account new opportunities that arise from waste production if this is considered a resource. What hinders this transition as well as to identify new opportunities is the interdependence of the individual companies to other micro and macro markets that also need to be redesigned to target the support of circular principles. Such markets need revisiting even in organized entities like eco-clusters, eco-industrial parks, or any other ecological symbiosis of businesses where wastes of one consist primary sources for other economic activities. These emerging markets face several economic, social, legal, and administrative barriers and opportunities. This Symposium aims to make a major contribution to the transfer of knowledge from research to practice covering sustainability and circularity topics, ultimately influencing major policy decisions.

The Symposium has been organised by the School of Production Engineering and Management (Technical University of Crete), with the co-operation of the Department of Economics and Sustainable Development (Harokopio University of Athens), the International Network for Economic Research (INFER), the Department of Environmental Engineering (Democritus University of Thrace) and the Region of Crete with the sponsorship of EOLOS GmbH, Frontiers in Sustainability Journal and K. KANELLAKIS S.A.

Several academic partners support the event including the Hellenic Association for Energy Economics, the Mediterranean Agronomic Institute of Chania, the EURECA-PRO/European University on Responsible Consumption and Production. Supporting partners include the United Nations Centre for Regional Development (UNCRD), the Laboratory of Energy and Policy of Energy and Environment (LAPTEE) of Hellenic Open University, ENIRISST and ENIRISST plus Infrastructures.

OBJECTIVES

This Symposium provides an opportunity for those interested in any level of Circular Economy and Sustainability applications, from individual business or industrial zones to national, international or global policies that will make feasible the effective application of circular economy principles for achieving sustainable development. Several researchers, practitioners, entrepreneurs and policy makers have registered presenting both empirical and theoretical papers addressing the Symposium's topics. An ultimate goal will be through the discussion following presentations to encourage participants to examine the concepts of circular economy under a holistic scale approach. Finally, a major innovation of this Symposium is the bridging of engineering, management and social knowledge to support the effective advance of circular and sustainability principles in order to produce efficient policies.

LANGUAGE

The official language of the Symposium is English for all presentations and discussions.

PUBLICATIONS

All the submitted extended abstract files have been linked with the respective presentation titles and are accessible online as a link to the Symposium program (<https://3rd.circulareconomy2050.eu/images/Program.pdf>). There will be no ISBN associated with the program so authors will be able to submit their full papers to scientific journals without having copyright issues. We have arranged post conference publishing opportunities as have already collaborated with five prestigious journals for publishing special issues on the Symposium's topics:

- Annals of Operations Research, Springer
- Economics of Energy and Environmental Policy, IEEE
- Frontiers in Sustainability, Circular Economy Section, Frontiers
- Renewable Energy, Elsevier
- Sustainable Production and Consumption, Elsevier

See more details here: <https://3rd.circulareconomy2050.eu/index.php/special-issues>.

Authors who want their work to be considered for publication to these special issues, should contact any of the guest editors for further advice.

CONFERENCE VENUE

Cultural Centre of Chania Andrea Papandreou 74, Chania, Crete Island, Greece



The Symposium will take place in the Cultural Centre of Chania located in the city center of Chania from June 27 to 29, 2022. Presentations will take place in “Room 1” and “Room 2” while coffee breaks and lunches will be served onsite.

Chania has its own airport “Ioannis Daskalogiannis” (coded as CHQ). It is connected with direct flights from several European airports and is located 17 min from the venue (13.3 Km). For further travel information, to and from the airport, visit this website: <https://www.chq-airport.gr/en/>. For more on Crete Island visit this website: <https://www.incrediblecrete.gr/en/>

REGISTRATION FEE

The standard early registration fee for the Symposium is 330€ (380€ late) and 300€ (350€ late) for organizing and supporting institutions’ members. The conference fee covers attendance, coffee breaks, on site lunches for 3 days and the gala dinner on the 27th of June.

GALA DINNER

The gala dinner will take place at Nykterida restaurant (www.nykterida.gr/index.php/en/). For accompanying persons, the cost is 50€. Book your extra tickets at info@circulareconomy2050.eu. Let us know if small kids accompany you as we have special arrangements.

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SCIENTIFIC AND SOCIAL PROGRAMME

MONDAY, 27 JUNE 2022

8.00 – 9.00	Registration
9.00 – 9.20	Welcoming Addresses (Room 1)
9.20 – 10.50	Keynote Presentations (Room 1)
10.50 – 11.20	Coffee Break ☮
11.20 – 13.20	Session 1A (Room 1) Session 1B (Room 2)
13.20 – 14.30	Lunch Break ☮
14.30 – 16.30	Session 2A (Room 1) Session 2B (Room 2)
16.30 – 17.00	Coffee Break ☮
17.00 – 18.40	Session 3A (Room 1) Session 3B (Room 2)
20.30 – 23.30	Gala Dinner 🍷

TUESDAY, 28 JUNE 2022

09.00 – 10.30	Keynote Presentations (Room 1)
10.30 – 11.00	Coffee Break ☮
11.00 – 13.00	Session 4A (Room 1) Session 4B (Room 2)
13.00 – 14.00	Lunch Break ☮
14.00 – 16.00	Session 5A (Room 1) Session 5B (Room 2)
16.00 – 16.30	Coffee Break ☮
16.30 – 18.30	Session 6A (Room 1) Session 6B (Room 2)

WEDNESDAY, 29 JUNE 2022

09.00 – 11.00	Session 7A (Room 1) Session 7B (Room 2)
11.00 – 11.30	Coffee Break ☮
11.30 – 13.30	Session 8A (Room 1) Session 8B (Room 2)
13.30 – 14.00	Closing (Room 1)
14.00 – 15.00	Lunch ☮

THURSDAY, 30 JUNE 2022

08.00 – 18.00	Technical Visit to Knossos and to the Archaeological Museum of Heraklion
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PROGRAMME - PRESENTATIONS

MONDAY, 27 JUNE 2022

Plenary session Room 1

KEYNOTE PRESENTATIONS

Chair: Evangelos Grigoroudis

- 08.00 – 09.00 Registration
 09.00 – 09.20 Welcoming Addresses
 09.20 – 10.05 Anders Wijkman. “[The circular economy is a priority but no panacea!](#)”
 10.05 – 10.50 Athanasios G. Konstandopoulos. “[Material and reactor technologies enabling a circular economy of the resource nexus](#)”
 10.50 – 11.20 Coffee Break ☹

Room 1

Session 1A (Parallel with Session 1B)

Chair: Athanasios G. Konstandopoulos

- 11.20 – 11.40 [Integrating urban production and consumption functions in the making of a circular city](#)
Erkki-Jussi Nylén, Ari-Veikko Anttiroiko (Finland)
- 11.40 – 12.00 [Exploring potential supply chains networks to foster industrial symbiosis within construction sector](#)
Anastasija Komkova, Birgitte Holt Andersen, Guillaume Habert (Switzerland)
- 12.00 – 12.20 [Nature-based solutions as a tool for circular economy in cities: a planning law perspective](#)
Caroline Van Esbroeck (Belgium)
- 12.20 – 12.40 [Circularity in the construction & demolition industry: Comparing weighting methods for multi-criteria decision analysis](#)
Norman Dytianquin, Nikos Kalogeras, John Oorschot, Nurhan Abujidi (The Netherlands)
- 12.40 – 13.00 [Investigating the business case in turning circular within the construction sector with focus on addressing identified barriers](#)
Birgitte Holt Andersen, Anastasija Komkova, Sophie Krog Agergaard (Denmark)
- 13.00 – 13.20 [Circular ecosystem building: from theory to practice](#)
Natalia Moreira, Kirsi Niinimäki (Finland)
- 13.20 – 14.30 Lunch Break ☺

Room 2

Session 1B (Parallel with Session 1A)

Chair: Pietro Calandra

- 11.20 – 11.40 [Development of a framework to evaluate the implementation level of circular economy in a company](#)
Francisco Javier Martinez Quesada, Anna Woźna, Małgorzata Rusińska (Poland)
- 11.40 – 12.00 [Green public Procurement as a tool for the transition from the linear model of economy to the circular economy](#)
Dimitris Karnavos, Roido Mitoula, Alexandra Tragaki, Constantinos Apostolopoulos (Greece)
- 12.00 – 12.20 [Field research for sustainable development and cyclical tourism in riparian areas](#)
Agisilaos Oikonomou, Roido Mitoula (Greece)
- 12.20 – 12.40 [End of life material mapping for the wind sector](#)
Lorna Bennet, Angeliki Spyroudi, Lewis Stevenson (Scotland)
- 12.40 – 13.00 [Commercializing circular economy innovations: a taxonomy of academic spin-offs](#)
Phuc Huynh, Einar Rasmussen, Oleg Nenadic (Norway)
- 13.00 – 13.20 [Physical chemistry helping circular economy: the virtuous matching of pyrolysis residues and bitumens improvement](#)
P. Caputo, P. Calandra, V. Loise, A. Le Pera, A-M. Putz, A. A. Abe, L. Madeo, B. Teltayev, M. L. Luprano, M. Alfè, V. Gargiulo, G. Ruoppolo, C. Oliviero Rossi (Italy)
- 13.20 – 14.30 Lunch Break 🍴

Room 1

Session 2A (Parallel with Session 2B)

Chair: Mohamed Osmani

- 14.30 – 14.50 [Environmental and economic consequences of implementing circularity enhancing strategies on batteries and associated value chains within EU](#)
Shelly Bogra, Evert Bouman (Norway)
- 14.50 – 15.10 [Environmental assessment of WEEE sorting centers in Greece](#)
Konstadinos Abeliotis, Eleni, Moschopoulou, Christina Chroni, George Konstantzos, Katia Lasaridi (Greece)
- 15.10 – 15.30 [Utilities transformed: The impact of \(sustainable\) innovation on the \(financial\) performance of the major European electricity suppliers, 2000-2020](#)
Bruno Damásio, Lars Frobel, Sandro Mendonça (Portugal)

- 15.30 – 15.50 [Activating circular services for electrical and electronic equipment – demonstration of circular economy business models in EEE](#)
Pascal Leroy, Ana Isabel Diaz, María Anta, Bernd Kopacek, Klaus Grobe, Mohamed Osmani, Maxime Furkel, Aybüke Kaba, Itziar Carracedo, Vicente B. Vert (Belgium)
- 15.50 – 16.10 [Dutch SMEs’ willingness to switch to sustainable production systems: An empirical study](#)
Nikos Kalogeras, Joost M.E. Pennings, Liesbeth Besselink (The Netherlands)
- 16.10 – 16.30 [The metrics of battery leadership: Patenting patterns since 2000](#)
Philipp Metzger, Sandro Mendonca, Jose A. Silva, Bruno Damasio (Portugal)
- 16.30 – 17.00 Coffee Break ☹

Room 2

Session 2B (Parallel with Session 2A)

Chair: Spiros Papaefthimiou

- 14.30 – 14.50 [Distributed ledger technology ecosystem actor roles and their contribution in ecosystem dynamics and sustainability](#)
Efstathios Papanikolaou, Jannis Angelis, Vassilis Moustakis (Greece)
- 14.50 – 15.10 [Sustainability assessment of national energy systems: A multicriteria outranking approach](#)
Stratos Kartsonakis, Evangelos Grigoroudis, Constantine Zopounidis (Greece)
- 15.10 – 15.30 [Energy use economic efficiency in the UE industrial ecosystems](#)
Ángel Peiró-Signes, Marival Segarra-Oña, Joaquín Sanchez-Planelles (Spain)
- 15.30 – 15.50 [Optimal sizing and energy management in a Solar-H2 sustainable system](#)
Christina Ntzachristou, Symeon Savvopoulos, Dimitris Ipsakis (Greece)
- 15.50 – 16.10 [A detailed life cycle assessment study of an intelligent and energy-autonomous greenhouse](#)
Kostas Loukakis, Evangelos Ntousakis, Manolis Doundoulakis, Spiros Papaefthimiou (Greece)
- 16.10 – 16.30 [Economic evaluation of new-type energy geo-structures in residential buildings. A case study in moderate Mediterranean climate](#)
Lazaros Aresti, Paul Christodoulides, Andreas Stassis, Georgios Florides (Cyprus)
- 16.30 – 17.00 Coffee Break ☹

Room 1

Session 3A (Parallel with Session 3B)

Chair: Dimitris Ipsakis

- 17.00 – 17.20 [Regenerative economics at the service of islands: Assessing the socio-economic metabolism of Samothraki in Greece](#)
Filippos K. Zisopoulos, Dominik Noll, Simron J. Singh, Daan Schraven, Martin De Jong, Brian D. Fath, Sally Goerner, Dan Fiscus, Robert E. Ulanowicz (The Netherlands)
- 17.20 – 17.40 [How could EU taxonomy contribute to the development of circular economy?](#)
Grégory Schneider-Maunoury (France)
- 17.40 – 18.00 [Examining citizens' lifestyle toward circular economy transition in Greece](#)
Spyridon Karytsas, Eleni Theodoropoulou (Greece)
- 18.00 – 18.20 [Investigation of EKC hypothesis in BRICS countries](#)
Antonis Ballas, Roido Mitoula, Ioannis Kostakis (Greece)
- 18.20 – 18.40 [Circular public procurement and the Sustainable Products Initiative. Insights from a legal perspective](#)
Aura Iurascu (Belgium)

Room 2

Session 3B ENIRISST (Parallel with Session 3A)

Chair: Dimitrios Dimitriou

- 17.00 – 17.20 [Regional observatory toward transportation system business intelligence and sustainability](#)
Dimitrios Dimitriou, Alexander Skabardonis, Maria Sartzetaki, Aristi Karagkouni (Greece)
- 17.20 – 17.40 [Evaluation of transportation sector agile strategy towards sustainability and circular economy concept](#)
Dimitrios Dimitriou, Aristi Karagkouni (Greece)
- 17.40 – 18.00 [Data-driven performance management to mitigate environmental risks and monitoring sustainability: An analysis for transportation and supply chain](#)
Dimitrios Dimitriou, Evaggelos Drimpetas, Aristi Karagkouni, Alexandros Thanos, Vasiliki Moutzizi (Greece)
- 18.00 – 18.20 [Interrelation of circular economy and business ethics in supply chain management: Concept and best practices](#)
Dimitrios Dimitriou, Antonia Moutzouri, Aristi Karagkouni, Panagiotis Kormas (Greece)

- 18.20 – 18.40 [Circular economy and sustainability in health care system: New strategies for development](#)
Paraskevi Apalaki, Aristi Karagkouni, Theodoros Konstantinidis, Ekaterini Alexiou-Chatzaki, Dimitrios J. Dimitriou (Greece)
- 20.30 – 23.30 Gala Dinner 🌃

TUESDAY, 28 JUNE 2022

Room 1

Keynote presentations

Chair: Victoria Krauter

- 09.00 – 09.45 Kostas Bithas. “[Exploring agriculture-based mitigation in the pursuit of circular economy. Food tree crops ecosystems as a net sink of CO₂](#)”
- 09.45 – 10.30 Constantin Zopounidis. “[ESG Index: A multicriteria analysis model](#)”
- 10.30 – 11.00 Coffee Break ☕

Session 4A (Parallel with Session 4B)

Chair: Konstadinos Abeliotis

- 11.00 – 11.20 [Reusable packaging systems: what works, what does not work, and why?](#)
Lucia Corsini, Charlie Bradley (United Kingdom)
- 11.20 – 11.40 [Effective waste management towards sustainable circular economy in Croatia: EU taxonomy implementation opportunities and challenges](#)
Andrea Hublin, Vladimir Jelavić (Croatia)
- 11.40 – 12.00 [Rethinking packaging for circular and sustainable food supply chains of the future – A project presentation](#)
Victoria Krauter (Austria)
- 12.00 – 12.20 [Food waste generation in the retail sector: Quantification and prospects for prevention through in-store data analysis](#)
Konstadinos Abeliotis, Katia Lasaridi, Christina Chroni, Dionisis Dionysopoulos, Angela Sapounaki, Alexia Machairas, Sotiris Piperis, Evangelia Sigala (Greece)
- 12.20 – 12.40 [Organisation and cost of municipal waste management chain: A case study based on the city of Milan](#)
Giacomo Di Foggia, Massimo Beccarello (Italy)
- 12.40 – 13.00 [The role of scrap management in a resource-efficient metals recycling](#)
Reinol Josef Compañero, Andreas Feldmann, Anders Tilliander, Peter Samuelsson (Sweden)
- 13.00 – 14.00 Lunch Break 🍴

Room 2

Session 4B (Parallel with Session 4A)

Chair: Konstantinos Salonitis

- 11.00 – 11.20 [Energy audit of a wastewater treatment plant](#)
Aikaterini M. Synanidou, Christos Roumeliotis, Konstantinos Azis, Nikolaos Remmas, Paraschos Melidis (Greece)
- 11.20 – 11.40 [Seawind Ocean Technology: Producing green hydrogen from floating offshore wind turbines](#)
Kyriakos Gialoglou (The Netherlands)
- 11.40 – 12.00 [Mapping of the circular economy implementation challenges in the fashion industry](#)
Aya Abdelmeguid, Mohamed Afy-Shararah, Konstantinos Salonitis (United Kingdom)
- 12.00 – 12.20 [An industrial symbiosis platform facilitating circular economy transition implementing Industry 4.0 technologies - A case study in Greece](#)
Chrysanthi Akrivou, Charalampos Manousiadis, Fotios K. Konstantinidis, Lucyna Łekawska-Andrinopoulou, Georgios Tsimiklis, Angelos Amditis (Greece)
- 12.20 – 12.40 [Keep all legs on the ground: Implementation challenges in circular furniture procurement](#)
Sofia Lingegård, Kristina von Oelreich (Sweden)
- 12.40 – 13.00 [Development of a composite index to assess the progress of firms towards Circular Economy \(CE\): A computational example to showcase the use of the Circularity Implementation Index \(CII\)](#)
Georgios Lanaras-Mamounis, Ioannis E. Nikolaou, Thomas A. Tsalis (Greece)
- 13.00 – 14.00 Lunch Break 🍴

Room 1

Session 5A (Parallel with Session 5B)

Chair: Spyridon Ntougias

- 14.00 – 14.20 [Reduction of excess sludge production in a MBR system using the chemical uncoupler 2,4,5-trichlorophenol](#)
Ioannis Stavrakakis, Nikolaos Remmas, Paraschos Melidis, Spyridon Ntougias (Greece)
- 14.20 – 14.40 Facilitating transformative change in the foundation sector in the UK
Anne P.M. Velenturf, Konstantinos Salonitis, Mark R. Jolly (United Kingdom)
- 14.40 – 15.00 [How to measure circular economy in water cycle?](#)
Amelia Pérez Zabaleta, Sofia Tirado Sarti (Spain)

- 15.00 – 15.20 [Techno-economic aspects of biomass valorization for biofuel production in Europe](#)
Nikolaos Remmas, Konstantinos P. Tsagarakis, Dimitrios Dimitriou, George Tsironis, Spyridon Ntougias (Greece)
- 15.20 – 15.40 [Agriculture's mitigation potentials. Using satellite methods for estimating biomass C pool in the Mediterranean](#)
Kariofillia Petridou, Angelos Mimis, Kostas Bithas (Greece)
- 15.40 – 16.00 [Types of business models for a circular bioeconomy](#)
Rodrigo Salvador, Murillo Vetroni Barros, Fausto Freire, Antonio Carlos de Francisco (Denmark)
- 16.00 – 16.30 Coffee Break ☹

Room 2

Session 5B (Parallel with Session 5A)

Chair: Ángel Peiró-Signes

- 14.00 – 14.20 [The contribution of author Victoria Hislop to sustainable tourism development of the island of Crete](#)
Maria Manola, Anna-Irini Tsatalbassoglou, George Koltsikoglou (Greece)
- 14.20 – 14.40 [The carbon footprint of inbound tourism in Greece: A global value-chain analysis](#)
Maria Markaki, Stelios Papadakis (Greece)
- 14.40 – 15.00 [Consumer, no more! The various roles of citizens in the transition to a circular economy.](#)
Leonidas Milios (Sweden)
- 15.00 – 15.20 [Sustainable planning for tourism in sensitive coastal regions: a case study of Balos beach in Western Crete](#)
Georgia Skiniti, Nikolaos Skarakis, Theocharis Tsoutsos (Greece)
- 15.20 – 15.40 [The needs of hotels and restaurants in their transition to a circular economy in the Valencian community](#)
Marival Segarra-Oña, Blanca de-Miguel-Molina, Ángel Peiró-Signes, María de-Miguel-Molina (Spain)
- 15.40 – 16.00 [The DigiMon European project: The Greek case study on citizens' perceptions concerning the monitoring of CO₂ in Carbon Capture and Storage \(CCS\) facilities](#)
Spyridon Karytsas, Dimitrios Mendrinou, Olympia Polyzou, Constantine Karytsas (Greece)
- 16.00 – 16.30 Coffee Break ☹

Room 1

Session 6A (Parallel with 6B)

Chair: Alejandro Gallego-Schmida

- 16.30 – 16.50 [Environmental impacts and circularity of online calls during research projects](#)
Raphael Ricardo Zepon Tarpania, Sarah Roystonb, Alejandro Gallego-Schmida (United Kingdom)
- 16.50 – 17.10 [Applying qualitative methodology for extracting key information on Circular Economy: focus group design process](#)
Marival Segarra-Oña, Virginia Santamarina-Campos, María de-Miguel-Molina, Ángel Peiró-Signes, Blanca de-Miguel-Molina, Daniel Catalá-Pérez (Spain)
- 17.10 – 17.30 [Immaturity and mismatched support – implementing circular public procurement](#)
Sofia Lingegård (Sweden)
- 17.30 - 17.50 [Manufacturing, the circular economy and industrial revolutions - does the fourth industrial revolution got the links right?](#)
Evi Viza (United Kingdom)
- 17.50 - 18.10 [Assessing the technical and economic feasibility of plastic waste chemical recycling via pyrolysis: A UK case study](#)
Antzela Fivga, Ioanna Dimitriou (United Kingdom)
- 18.10 – 18.30 [Identifying the right metrics for net-zero transformation](#)
Shoaib Sarfraz, Mark Jolly, Konstantinos Salonitis (United Kingdom)

Room 2

Session 6B (Parallel with 6A)

Chair: Georgios Archimidis Tsalidis

- 16.30 – 16.50 [Comparing the material circularity index of the Italian and Spanish motorways: A case study over the Mediterranean basin](#)
Konstantinos Mantalovas, Iain Peter Dunn, Francesco Acuto, Gaetano Di Mino (Italy)
- 16.50 – 17.10 [Analysis of companies related to the air-transport sector with data derived from LinkedIn.](#)
Georgios Tsironis, Aristi Karagkouni, Dimitrios Dimitriou, Konstantinos Tsagarakis (Greece)
- 17.10 – 17.30 [Design trade-offs in circular supply chains: A cross-industry case study](#)
Daniel Berlin, Andreas Feldmann (Sweden)

- 17.30 – 17.50 [The MOF4AIR European project: Exploring the determinants of social acceptance of Carbon Capture and Storage \(CCS\)](#)
Spyridon Karytsas, Olympia Polyzou, Theoni I. Oikonomou, Constantine Karytsas (Greece)
- 17.50 – 18.10 [Investigating EKC in oil-exporting countries](#)
Rashid Sbia, Ioannis Kostakis (United Arab Emirates)
- 18.10 – 18.30 [The CO2NSTRUCT European project: Developing a strategy to quantify citizen behaviour and key stakeholder opinion on circular economy measures](#)
Spyridon Karytsas, Theoni Oikonomou, Constantine Karytsas (Greece)

WEDNESDAY, 29 JUNE 2022

Room 1

Session 7A (Parallel with Session 7B)

Chair: Aysen Sivrikaya

- 09.00 – 09.20 [Barriers to and motivations for industrial energy efficiency implementations: Evidence from a developing country](#)
Aysen Sivrikaya, Songül Tekeli (Turkey)
- 09.20 – 09.40 [Life cycle assessment of low-carbon technologies](#)
Georgios Archimidis Tsalidis (Greece)
- 09.40 – 10.00 [Cultural venues sustainable development: the case of Thrace region](#)
Dimitrios Dimitriou, Maria Sartzetaki, Iliana Kalenteridou (Greece)
- 10.00 – 10.20 [Circular renovation methods & products for the built environment in Europe](#)
Dimitra Papadaki, Ana Tisov, Peter op't Veld, Margarita-Niki Assimakopoulos (Greece)
- 10.20 – 10.40 [Adopting circular economy strategies into geothermal power generation](#)
Jingyi Li, Raphael Ricardo Zepon Tarpani, Laurence Stamford, Alejandro Gallego-Schmid (United Kingdom)
- 10.40 – 11.00 [End-of-life management of wind turbine blades: Recycling and repair](#)
Leon Mishnaevsky Jr. (Denmark)
- 11.00 – 11.30 Coffee Break ☹

Room 2

Session 7B (Parallel with Session 7A)

Chair: Konstantinos Christoforidis

- 09.00 – 09.20 [Education for circularity and sustainability: a literature review](#)
Giulia Galtieri (Italy)
- 09.20 – 09.40 [The role of national branding in shifting to circular economy](#)
Maria Sartzetaki, Victoria Pistikou, Evaggelos Drimpetas, Dimitrios Dimitriou (Greece)
- 09.40 – 10.00 [Adsorption of organics on novel clay/metal-organic frameworks \(MOFs\) nanocomposites](#)
Ioanna Vasiliadou, Thaleia Ioannidou, Maria Anagnostopoulou, Konstantinos C. Christoforidis (Greece)
- 10.00 – 10.20 [Environmental sustainability, energy consumption and economic growth: empirical evidence from OECD countries](#)
Ioannis Kostakis, Dimitrios Pappas, Konstantinos P. Tsagarakis (Greece)
- 10.20 – 10.40 [Life cycle assessment of a wooden building](#)
Viktor Kouloumpis (Greece)
- 10.40 – 11.00 [Establishing a circular economy framework in a 2G ethanol-based supply chain in Karnataka, India](#)
Reema Mohanty, P Balachandra, S Dasappa (India)
- 11.00 – 11.30 Coffee Break ☹

Room 1

Session 8A (Parallel with Session 8B)

Chair: Jan Hammenecker

- 11.30 – 11.50 [Qualitative and quantitative analysis of circular economy related companies' LinkedIn profiles, on a global scale.](#)
Georgios Tsironis, Theodoros Daglis, Konstantinos Tsagarakis (Greece)
- 11.50 – 12.10 [Circular economy and sustainable development in European countries](#)
David Knäble (Germany)
- 12.10 – 12.30 [Circular economy towards a sustainable mobility system: the case of Latin American countries](#)
America Rocío Quinteros-Condorety, Laura Albareda (Finland)
- 12.30 – 12.50 [Application of circular economy to viticulture](#)
Georgios Archimidis Tsalidis, Nestor Tsirliganis, Zoi-Panagiota Kryona, Spyridon Rapsomanikis (Greece)

- 12.50 – 13.10 [Water circles: the secrets revealed; examples of circular water use in the Belgian industry](#)
Jan Hammenecker (Belgium)
- 13.10 – 13.30 [Business model canvas for increasing circularity in composting to address soil loss in Tunisia](#)
Manel Ben Iakhdar, Biljana Kulisic (Tunisia)
- 13:30 – 14:00 Closing
- 14.00 – 15.00 Lunch 🍴

Room 2

Session 8B (Parallel with Session 8A)
Chair: Giulia Romano

- 11.30 – 11.50 [Raising effective awareness for the circular economy through the students' experience in a virtual enterprise](#)
Kiriaki Keramitsoglou, Theodoros Litseselidis, Anna Kardimaki (Greece)
- 11.50 – 12.10 [Energy poverty in Greek households during Covid-19 pandemic](#)
Eleni Sardianou, Ioannis Kostakis (Greece)
- 12.10 – 12.30 [A cross-cities analysis of sustainable development goals in Italy](#)
Idiano D'Adamo, Massimo Gastaldi, Piergiuseppe Morone (Italy)
- 12.30 – 12.50 [In search for the common good: different ownership and governance models for circular economy](#)
Giulia Romano, Mario Minoja (Italy)
- 12.50 – 13.10 [Sustainability leadership - The leadership required to drive circular economy](#)
Maria Bakatsaki (Greece)
- 13.10 – 13.30 [Circular economy and sustainable development in primary education](#)
Aikaterini D. Kosta, Kiriaki M. Keramitsoglou, Konstantinos P. Tsagarakis (Greece)
- 13:30 – 14:00 Closing (Room 1)
- 14.00 – 15.00 Lunch 🍴

Thursday, 30 JUNE 2022

On Thursday, June 30, a technical visit will be organised. Participants and accompanying persons will be transferred [to Knossos archaeological site](#) and then will be transferred to Heraklion city centre to visit the [Archaeological Museum of Heraklion](#). The cost for the bus and tour guide is 20€ per person (Not included in the registration fee). It does not include the entrance fee to the sites or any other onsite costs (entrance waivers to archaeological places may apply). The bus will depart from Chania city centre at 8.00 in the morning and will return at 18.00 in the afternoon.

If you wish to participate, please express your interest to info@circulareconomy2050.eu