



2ND INTERNATIONAL CONFERENCE ON

ENERGY ENGINEERING AND RESOURCE EFFICIENCY

September 23-24, 2024

HOTEL DUO, PRAGUE, CZECH REPUBLIC

Theme: “Current Research on Energy Engineering and Resource Efficiency”

<https://crgconferences.com/energyengineering>

Day 1 - September 23, 2024

08:00 - 08:30 Registrations

08:30 - 08:45 Opening Ceremony and Introduction

Keynote Presentations

08:45 - 09:25 Stormwater Modeling: Recent Progress and Challenges

Erik R Christensen, University of Wisconsin-Milwaukee, USA

09:25 - 10:05 Cleaner Production and Circular Economy: Paradigm Shifts and New Directions

K Sandy Kyaw, Cardiff Metropolitan University, UK

Group Photo: 10:05 - 10:15

Networking & Refreshments (10:15 - 10:35)

10:35 - 11:15 Carbon Pricing in Germany's Road Transport and Housing Sector: Options for Reimbursing Carbon Revenues

Manuel Frondel, RWI Leibniz-Institut für Wirtschaftsforschung, Germany

11:15 - 11:55 Sustainable Options for the End-Of-Life of Clean Energy Technologies

Anna Mazzi, University of Padova, Italy

11:55 - 12:55 Strategic Future Thinking: Leveraging Technology for Sustainable Practices in the Circular Economy

Xukai Fu and William Meng, Beijing Jinkai New Energy Environmental Technology Co., Ltd., China

Oral Presentations

Sessions: Circular Economy | Circular Bio-economy | Life Cycle Assessment | De-carbonization/ Low- Carbon Economy and Net Zero | Environmental Sustainability and Climate Change | Resource Efficiency and Value Chain | Renewable Energy

Session Chair **Xukai Fu, Beijing Jinkai New Energy Environmental Technology Co., Ltd., China**

12:55 - 13:20 How Small Projects Shed Light on the Big Picture: Rural Biogas Projects Vs Global Environmental Degradation A Common Denominator

Jón Gudmundsson, Agricultural University of Iceland, Iceland

Lunch (13:20 - 14:00)

14:00 - 14:25 Development of a Methodological Framework for Circular Economy Business Model Valorization

Natalija Cudecka-Purina, BA School of Business and Finance, Latvia

14:25 - 14:50 Towards a Circular Economy for Bikes: AI-based Damage Detection for Repair Planning

Tobias Geger, Institute for Software and Systems Engineering, University of Technology Clausthal, Germany

14:50 - 15:15 The Circular Economy – Comparative Study of Different Countries on the Spectrum - Germany, Netherlands, and France, on One Side, and Romania and Poland, on the Side

TUDOROIU, Simina Claudia and TUDOROIU, Roxana Elena, University of Petrosani, Romania

15:15 - 15:40 Enabling a Circular Economy of Medicines with a Smart Packaging Environmental Sensor

James Gerrans, University of Reading, UK

15:40 - 16:05	Circularity Assessment by Hierarchy of Disassembly: An Application of Circularity Indicators as a Design Tool for Architecture Francesco Incelli and Massimo Rossetti, Iuav University of Venice, Italy
Networking & Refreshments (16:05 - 16:25)	
16:25 - 16:50	Can it be Determined? On how to Rate Refurbishment Expenditure of Power Tool Batteries with the Help of Artificial Intelligence Dominique Fabio Briechle, Institute for Software and Systems Engineering, University of Technology Clausthal, Germany
16:50 - 17:15	Cogeneration Unit with a Pulse Detonation Engine Jirí Rusín, Technical University of Ostrava, Czech Republic
17:15 - 17:40	Identification of R. Erythropolis Bioadsorption Process and Cesium Accumulation Location Woong Kim, Kyungpook National University, South Korea
17:40 - 18:05	Testing experience with GIT as a more sustainable solution Necmettin Mert Kocanali, Balikesir Elektromekanik Sanayi Tesisleri AS, Turkey
18:05 - 18:30	Does the Circular Economy Provide Solutions to the Challenges of Public Transport Electrification? Insights from the CE4CE Project Marcin Wolek, University of Gdansk, Poland

Day 1 Concludes followed by Certificate Felicitation

Note: Program Timings May Change Slightly

Day 2 - September 24, 2024

Keynote Presentation

08:45 - 09:25	Global Population: From Super-Malthus Behavior to Doomsday Criticality Aleksandra Drozd-Rzoska and Agata Angelika Sojecka, University of Economics in Katowice, Poland
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Oral Presentations

Sessions: Cleaner Energy Systems | Circular Economy | Sustainable Development and Sustainable Technology | Cleaner Production Economics | Cleaner Logistics and Supply Chain | Renewable Energy | Advanced Energy Systems | Cleaner and Responsible Consumption

Session Chair	Xukai Fu, Beijing Jinkai New Energy Environmental Technology Co., Ltd., China
09:25 - 09:50	Solar Harvesting via Multiple Transparent Photothermal Panels for Building Heating Utilities Donglu Shi, University of Cincinnati, USA
09:50 - 10:15	Circular Economy in the Construction Sector. An Explorative Study about the Recycling of Single-Use Masks based on a Customer Survey and Business Expert Interviews Daniela Ludin, Department of Economics, Heilbronn University, Germany

Networking & Refreshments (10:15 - 10:35)

10:35 - 11:00	Circular Economy and Entrepreneurship in Europe: An Analysis of the Impact of Cultural Factors and Regulatory Framework Francisco J Sáez-Martínez and Angela Gonzalez-Moreno, University of Castilla-La Mancha, Spain
11:00 - 11:25	A Step Closer to Sustainability with In-Mold Electronics Stephan S Harkema, TNO at Holst Centre, Netherlands
11:25 - 11:50	Improving Areas with a Circular Economy Approach for Plastic from the Target Environment. A Case Study Marius Köder, Aalen University of Applied Science, Germany

11:50 - 12:15	The Cycle of Zero Fossil Methane Suaad S Al-Zakwani, University of Birmingham, UK
12:15 - 12:40	Enhancing the Use of Reclaimed Building Materials: Supply Chain Actors' Attitudes Toward the Potential of a Mobile Application Aleksandra Dorota Kret-Grzeskowiak, Wrocław University of Science and Technology, Poland
12:40 - 13:05	Optimizing the Reverse Supply Chain for Deconstructed Modular Building Components Hosna Ghorab, Concordia University, Concordia Institute for Information Systems Engineering, Canada
Lunch (13:05 - 13:45)	
13:45 - 14:10	Biodiesel Production Processes with Yeasts from a Sustainable Approach Alejandra Sánchez Solís, Universidad Iberoamericana, Mexico
14:10 - 14:35	Harnessing Energy from Descending Greywater in Tall Buildings Gideon Oron, Israel
14:35 - 15:00	Reverse Logistics of Post-Consumer Glass Bottle in Brazil: A Case Study from the Perspective of the Street Collectors and the End Consumer Alaercio Nicoletti Junior, Production Engineering Department, Mackenzie Presbyterian University, Brazil
15:00 - 15:25	Development of Viable Hop Planting in Brazil - A Case Study Alaercio Nicoletti Junior, Production Engineering Department, Mackenzie Presbyterian University, Brazil
15:25 - 15:50	The Challenge of Reverse Logistics for Post-Consumer Glass Packaging in Brazil Alaercio Nicoletti Junior, Production Engineering Department, Mackenzie Presbyterian University, Brazil
15:50 - 16:15	The Use of Fine Pellet Grains and Sponge Iron Sludge to Produce Oxide Briquettes Based on Circular Economy Reza Bahaadini, Reza Rouholamini and Samad Abbaslou, Golgohar Iron and Steel Development Company, Iran
Networking & Refreshments (16:15 - 16:35)	
16:35 - 17:00	Understanding Dairy Livestock Farmers' Intention to Adopt Sociocultural Dynamics for Food Security using the Theory of Planned Behaviour Paresh Kumar Sarma, Bangladesh Agricultural University, Bangladesh
17:00 - 17:25	Optimizing DO concentration in conventional activated sludge process to alleviate energy consumption: Application of Particle Swarm Optimization algorithm Mpho Muloiwa, Tshwane University of technology, South Africa
Poster Presentations	
Poster Judge	James Gerrans, University of Reading, UK
Poster Judge	Xukai Fu, Beijing Jinkai New Energy Environmental Technology Co., Ltd., China
POSTER 01	The Northern Netherlands: Transformation of a Gas-Producing Region into a Forerunner in the Biobased Circular Transition Johanna Angela Thomann, Hanze University of Applied Science, The Netherlands
POSTER 02	Methane Production from the Pyrolysis-Methanation of Waste Polyethylene Terephthalate Plastic Maram Alotaibi, University of Leeds, UK
POSTER 03	Pyrolysis of Waste Plastics and Tires for Liquid Fuels and Chemicals Noof Alzahrani, University of Leeds, UK

POSTER 04 Application of Ligninolytic Enzyme Producing Bacteria for Enhanced Bioconversion of Lanzhou Lily Biomass into Bioethanol
Kamran Malik, Lanzhou University; China

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Day 1 - September 23, 2024

Virtual Presentations - British Summer Time (BST)

11:00 - 11:30	The Possibilities of Bacterial Cellulose within Established Markets: The Scalability of the Process and the Versatility of the Material Patrizia Bolzan, Politecnico di Milano, Italy
11:30 - 12:00	Does Family Care Promote Clean Cooking Energy Choices for Older Persons? – Analysis In Light of Home-Based Care in Rural China Wei Huang, Sichuan Agricultural University, China
12:00 - 12:30	Hosting Capacity of Distribution Grid Alen Tatalovic, HEP ODS d.o.o. Elektroprimorje Rijeka, Croatia
12:30 - 13:00	Aspects of V2G Implementation in the Distribution System Mateo Kirincic, University of Rijeka, Croatia
13:00 - 13:30	Study of the Process of Structural Wood Reuse in a Deconstruction/ Reconstruction Operation Odran Lemaitre, Laboratoire d'Etude et de Recherche sur le Matériau Bois, Université de Lorraine, France
13:30 - 14:00	Environmental Sustainability and Intelligence as well as General Green Technologies Jinsong Wu, University of Chile, Chile

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