

Joint Event

International Conference on
**CLEANER PRODUCTION AND
CIRCULAR ECONOMY**
&
**POWER AND ENERGY
ENGINEERING**

November 06-07, 2023 | Dubai, UAE



Scientific Program

International Conference on

Cleaner Production and Circular Economy

&

Power and Energy Engineering

Day 1 - November 06, 2023 | City Seasons Suites, Dubai, UAE

Meeting Hall: El Dhiyafa 1

08:00 - 08:30 Registrations

08:30 - 09:00 Introduction

Keynote Presentations

09:00 - 09:45 Power Quality Issues and Mitigation in Grid-Tied Network

Nidhi Mishra, Birla Institute of Technology, India

09:45 - 10:30 Resilient Supply Chains with ESG Integration

Rajat Agrawal, Department of Management Studies, IIT Roorkee, India

10:30 - 11:00 Step Forward in Vibro-Acoustical Structural Health Monitoring and NDT for Energy Systems

Len Gelman, The University of Huddersfield, UK

Group Photo @ 11:00 - 11:15

Networking and Refreshments 11:15 - 11:30 @ Banquet Pre Function Area

Oral Presentations

Session Chair: **Viktor Gurieiev**, Harbin Institute of Technology, China

Session Chair: **Rajat Agrawal**, Indian Institute of Technology Roorkee, India

Sessions:

Cleaner Production and Advanced Manufacturing | Cleaner Energy Systems | Cleaner and Sustainable Materials | Circular Economy | Cleaner Production Economics | Renewable Energy and Renewable Resources | Water, Food and Energy Nexus | Renewable Power Generation | Electricity | Solar Energy

11:30 - 12:00 Influence of Demographic Changes and Digitalization on Eco-innovation and the Circular Economy: Qualitative Insights from 10 Slovenian Companies

Mitja Ruzzier and Maja Konecnik Ruzzier, University of Primorska, Slovenia

12:00 - 12:30 Advances of Triboelectric Nanogenerator for Sustainable and Renewable Energy: Working Mechanism, Tribo-Surface Structure and Applications

Chen-Kuei Chung, National Cheng Kung University, Taiwan

12:30 - 13:00 Revisiting Environmental Kuznets Curve: The Effects of Foreign Aid on Air Quality in Africa

Zhicheng Xu, Henan University, China

Lunch Break 13:00 - 14:00 @ All Day Dining Restaurant

14:00 - 14:30 Giving Value to Agroindustry Wastes in a Circular Bioeconomy: Development of Fungal Bio-Composite Thermoacoustic Panels using Lignocellulosic Wastes

Antonio Carlos de Francisco, Sustainable Production Systems Laboratory (LESP), Universidade Tecnológica Federal do Paraná (UTFPR), Brazil

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14.30 - 15.00 Revisiting the Critiques of Circular Economy for Sustainability in the Light of Neoclassical Economics

Adhwaresh Pandey, Indian Institute of Technology Roorkee, India

15.00 - 15.30 The Newest Advances in Biofertilization - Improving Soil Fertility and Quality of Horticultural Crops

Lidia Sas-Paszt, The National Institute of Horticultural Research, Poland

15.30 - 16.00 From Campuses to Communities: The Influence of Higher Education on SDGs

Ankita Shukla, Indian Institute of Technology Roorkee, India

Networking and Refreshments 16.00 - 16.30 @ Banquet Pre Function Area

16.30 - 17.00 Harnessing the Power of Artificial Intelligence in Green Energy: A Systematic Review and Conceptual Framework for Sustainable Solutions

Pankaj Kumar Detwal, Indian Institute of Technology Roorkee, India

17.00 - 17.30 Carbon Footprint of Fishing Vessels in the Adriatic Sea and Potential of Hybrid Power Systems in its Reduction

Nikola Vladimir, University of Zagreb, Croatia

Day 1 Concludes followed by Awards Ceremony

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Day 2 - November 07, 2023 | City Seasons Suites, Dubai, UAE

Meeting Hall: El Dhiyafa 1

Keynote Presentations

9.00 - 9.45 Integration of Modeling Methods and Personnel Training using a Virtual Energy Ecosystem
Viktor Gurieiev, Harbin Institute of Technology, China

Oral Presentations

Session Chair **Zhenqian Chen**, Southeast University, China

Sessions: Cleaner Production and Advanced Manufacturing | Cleaner Energy Systems | Cleaner and Sustainable Materials | Circular Economy | Cleaner Production Economics | Renewable Energy and Renewable Resources | Water, Food and Energy Nexus | Renewable Power Generation | Solar Energy | Electrical Machines and Motor Drives | Multi Energy Systems

9.45 - 10.15 Dynamic Simulation and Carbon Neutral Benefit Analysis of Integrated Anaerobic Digestion System of Solar Coupled Tail Water Source Heat Pump in Sewage Treatment Plant
Huiru Wang, Southeast University, China

10.15 - 10.45 Producing Green or Brown? A Game of Green Innovation in an Asymmetric Oligopoly
Margarida Catalão Lopes, CEG-IST, Instituto Superior Técnico, Universidade de Lisboa, Portugal

Networking and Refreshments 10.45 - 11.15 @ Banquet Pre Function Area

11.15 - 11.45 Numerical Simulation of Photochemistry and Component Transport of Azobenzene Molecular Solar Thermal System
Yi Wang and Zhenqian Chen, Southeast University, China

11.45 - 12.15 AI Based Wind Power Forecasting Method Considering Shape and Time Loss
Jizhong Zhu, South China University of Technology Guangzhou, China

12.15 - 12.45 Modeling of Electricity System of Kazakhstan to Testing New Market Design with High Share of Renewables
Nurkhat Zhakiyev, Astana IT University, Kazakhstan

12.45 - 13.15 Characteristics of Vibration Energy Platform Driven by Asynchronous Motors
Iuliia Zaitceva, Institute For Problems of Mechanical Engineering of RAS, Russia

Lunch Break 13:15 - 14.00 @ All Day Dining Restaurant

Poster Presentations

Poster-001 Renewable Fuels and Their Contribution to Cleaner Emissions in Transport
Michal Puškár, Technical University of Košice, Slovakia

Poster-002 Exoskeleton of Tenebrio Molitor Larvae Fed with Polystyrene as an Alternative Source of Chitin
Larisa Ilijin, University of Belgrade, Serbia

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Video Presentation

VIDEO- 01

End Zone Analysis of Loaded Powerful Turbo Generator

M. Roytgarts, JSC Power Machines, Russia

End of Day 2 Presentations, Certificate Felicitation and Closing Ceremony

Virtual Presentations

Day 1 - November 06, 2023

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Starts at 11:00 AM British Summer Time (BST)

11:00 - 11:15 **Introduction**

Keynote Presentation

11:15 - 11:45 Application of AI in Renewable Energy System Management
Veena Raj, University Brunei Darussalam, Brunei

11:45 - 12:15 Materials and Process Optimization in the Perovskite Upscaling Route
Luigi Vesce, University of Rome Tor Vergata, Italy

12:15 - 12:45 A Holistic Approach to Determining Floating Photovoltaic Scenarios
Ching-FENG Chen, National Chung Hsing University, Taiwan

12:45 - 13:15 Accelerating the Renewable Revolution in the Energy Sector
Khalil Aghapouramin, Girne American University, Cyprus

Lunch @ 13:15 - 13:45

13:45 - 14:15 Artificial Intelligence and Machine Learning for Energy Systems
Ankita Ghosh, Govind Ballabh Pant University of Agriculture and Technology, India

Oral Presentations

14:15 - 14:35 Assessing the Impact of Overcoming BIM Implementation Barriers on BIM Usage Frequency and Circular Economy in the Project Lifecycle using Partial Least Squares Structural Equation Modelling (PLS-SEM) Analysis
Georgina Esi Takyi-Annan, School of Architecture, Southeast University, China

14:35 - 14:55 Wireless Power Transfer: Energy Consumption or Conservation
Prutha Kulkarni, Vishwakarma Institute of Information Technology, India

14:55 - 15:15 Harmonic Analysis of Indian Residential Distribution Systems with Integration of Electric Vehicles
Jayababu Badugu, Vignan's Lara Institute of Technology and Science, India

15:15 - 15:35 Simulating Two Reactivity Insertion Transients for A 3D Box Containing Fissile Material Using a Time-Dependent Monte Carlo Module
Mona Ajami, Nuclear Science and Technology Research Institute (NSTRI), Iran

15:35 - 15:55 An Offline Image Auditing System for Legacy Meter Reading Systems in Developing Countries: A Machine Learning Approach
Natasha Nigar, University of Engineering and Technology, Pakistan

15:55 - 16:15 Holistic Mapping in the Metal-Mechanic Industry: Integrating Lean Manufacturing, Industry 4.0, and Circular Economy
Diana Flores Galindo, American University of Europe - UNADE, Mexico

16:15 - 16:35 Selection of Food Waste with Low Moisture and High Protein Content from Mexican Restaurants as a Supplement to Swine Feed
Liliana Fausto Castro, Universidad del Sabes, Mexico

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16:35 - 16:55 **Robust Gold Nanoparticle Catalyst of 2 Nm On Co₃O₄{111} For Co Oxidation**
Sami Barkaoui, Chinese Academy of Sciences, China

Upcoming Conference

2nd International Conference on

CLEANER PRODUCTION AND CIRCULAR ECONOMY

September 23-24, 2024 | Prague, Czech Republic

2nd International Conference on

ENERGY ENGINEERING AND RESOURCE EFFICIENCY

September 23-24, 2024 | Prague, Czech Republic

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