

*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 - 09:00 Registrations

09:00 - 09:30 Introduction

## Keynote Presentations

09:30 - 10:15 Power Quality Issues and Mitigation in Grid-Tied Network

**Nidhi Mishra**, Birla Institute of Technology, India

10:15 - 11:00 Resilient Supply Chains with ESG Integration

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

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

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

International Conference on

# Cleaner Production and Circular Economy

&

# Power and Energy Engineering

15.00 - 15.30	The Newest Advances in Biofertilization - Improving Soil Fertility and Quality of Horticultural Crops <b>Lidia Sas-Paszt</b> , The National Institute of Horticultural Research, Poland
15.30 - 16.00	From Campuses to Communities: The Influence of Higher Education on SDGs <b>Ankita Shukla</b> , Indian Institute of Technology Roorkee, India
<b>Networking and Refreshments 16.00 - 16.30 @ Banquet Pre Function Area</b>	
16.30 - 17.00	Harnessing the Power of Artificial Intelligence in Green Energy: A Systematic Review and Conceptual Framework for Sustainable Solutions <b>Pankaj Kumar Detwal</b> , 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 <b>Nikola Vladimir</b> , University of Zagreb, Croatia
<b>Day 1 Concludes followed by Awards Ceremony</b>	

International Conference on

# Cleaner Production and Circular Economy

# &

# Power and Energy Engineering

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

14.00 - 14.30 Step Forward in Vibro-Acoustical Structural Health Monitoring and NDT for Energy Systems

**Len Gelman**, The University of Huddersfield, UK

14.30 - 15.00 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

International Conference on

# Cleaner Production and Circular Economy

&

# Power and Energy Engineering

## Poster Presentations

Poster-001	Renewable Fuels and Their Contribution to Cleaner Emissions in Transport <b>Michal Puškár</b> , Technical University of Košice, Slovakia
Poster-002	Exoskeleton of Tenebrio Molitor Larvae Fed with Polystyrene as an Alternative Source of Chitin <b>Larisa Ilijin</b> , University of Belgrade, Serbia

## Video Presentation

VIDEO- 01	End Zone Analysis of Loaded Powerful Turbo Generator <b>M. Roytgarts</b> , JSC Power Machines, Russia
-----------	--

End of Day 2 Presentations, Certificate Felicitation and Closing Ceremony

International Conference on

# Cleaner Production and Circular Economy

# &

# Power and Energy Engineering

## Virtual Presentations

Day 1 - November 06, 2023

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 Robust Gold Nanoparticle Catalyst of 2 Nm On Co<sub>3</sub>O<sub>4</sub>{111} For Co Oxidation

**Sami Barkaoui**, Chinese Academy of Sciences, China

## *Upcoming Conference*

2<sup>nd</sup> International Conference on

# **CLEANER PRODUCTION AND CIRCULAR ECONOMY**

September 23-24, 2024 | Prague, Czech Republic

2<sup>nd</sup> International Conference on

# **ENERGY ENGINEERING AND RESOURCE EFFICIENCY**

September 23-24, 2024 | Prague, Czech Republic

**Coalesce Research Group**  
33 Market Point Dr,  
Greenville, SC 29607, USA

**Contact Us:**

**Phone:** +1-718-543-9362

**Whatsapp:** +1-843-868-0484

