



2<sup>ND</sup> 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 Speaker Presentations

|                     |   |
|---------------------|---|
| <b>Presentation</b> | Title: Solar Harvesting via Multiple Transparent Photothermal Panels for Building Heating Utilities   |
|                     | <b>Donglu Shi, University of Cincinnati, USA</b>  |
| <b>Presentation</b> | Title: Stormwater modeling: Recent Progress and Challenges  |
|                     | <b>Erik R Christensen, University of Wisconsin-Milwaukee, USA</b>   |
| <b>Presentation</b> | Title: Pyrolysis of Waste Plastics and Tires for Liquid Fuels and Chemicals   |
|                     | <b>Noof Alzahrani, University of Leeds, UK</b>  |
| <b>Presentation</b> | Title: Cogeneration Unit with a Pulse Detonation Engine   |
|                     | <b>Jirí Rusín, Technical University of Ostrava, Czech Republic</b>  |
| <b>Presentation</b> | Title: Biodiesel Production Processes with Yeasts from a Sustainable Approach   |
|                     | <b>Alejandra Sánchez Solís, Universidad Iberoamericana, Mexico</b>  |
| <b>Presentation</b> | Title: Identification of R. Erythropolis Bioadsorption Process and Cesium Accumulation Location   |
|                     | <b>Woong Kim, Kyungpook National University, South Korea</b>  |
| <b>Presentation</b> | Title: Harnessing Energy from Descending Greywater in Tall Buildings  |
|                     | <b>Gideon Oron, Ben-Gurion University of the Negev Kiryat Sde-Boker, Israel</b>   |
| <b>Presentation</b> | Title: Renewable Energy Education and Community Engagement  |
|                     | <b>Nia Novella Jones, University of California, Berkeley, USA</b>   |
| <b>Presentation</b> | Title: Optimizing South Africa's Energy Mix: A Techno-econometric Perspective   |
|                     | <b>Ockert Koekemoer, North West University, South Africa</b>  |
| <b>Presentation</b> | Title: Calendar Spread Options on Energy Commodities  |
|                     | <b>Carme Frau, Universitat de les Illes Balears (UIB), Spain</b>  |
| <b>Presentation</b> | Title: Validation of Proton Exchange Membrane Fuel Cells Simulation Model with Pt/C and Pt-Ru/C Catalyst Layers   |
|                     | <b>Kosmas A Kavadias, University of West Attica, Greece</b>   |
| <b>Presentation</b> | Title: Asymmetric Relationship Between Energy Consumption, Air Quality and Economic Growth in China   |
|                     | <b>Mortaza, Istanbul Aydin Universitesi, Turkey</b>   |
| <b>Presentation</b> | Title: Evaluation of Potential Sector in in Food & Beverages Industry for Indonesia's Green And Inclusive Recovery Through Circular Economy (CE) And Low Carbon Development Initiative (LCDI) |
|                     | <b>Yosi Agustina Hidayat , Bandung Institute of Technology (ITB), Bandung, Indonesia</b>  |

## Speaker/Delegate Slots Available

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|                                    |   |
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| <b>Presentation</b>                | Title: The Role of Renewable Energy Sources in Sustainable Development Goals Towards Achieving Fourth Industrial Revolution Technology                                    |
|                                    | <b>Mogaji Taye Stephen</b> , Federal University of Technology Akure, Nigeria  |
| <b>Presentation</b>                | Hosting Capacity of Distribution Grid   |
|                                    | <b>Alen Tatalović</b> , HEP ODS d.o.o. Elektroprimorje Rijeka, Croatia  |
| <b>Presentation</b>                | Title: Aspects of V2G implementation in the distribution system   |
|                                    | <b>Mateo Kirincic</b> , Faculty of Engineering, University of Rijeka, Croatia   |
| <b>Day 2 Speaker Presentations</b> |   |
| <b>Presentation</b>                | Title: Indoor Photovoltaics for Sustainable Internet of Things  |
|                                    | <b>Lethy Krishnan Jagadamma</b> , University of St Andrews, United Kingdom  |
| <b>Presentation</b>                | Title: Pyrolysis-Non-Thermal-Plasma-Catalysis Processing of Biomass and Wastes for Upgraded Oil and Gas Production  |
|                                    | <b>Maryam Khatibi</b> , University of Leeds, United Kingdom   |
| <b>Presentation</b>                | Title: Barriers and Motivations for SME Engagement in Circular Economy Business Models: Evidence from a Large-Scale Survey of Irish Smes                                  |
|                                    | <b>Gordon Sirr</b> , University College Cork, Ireland   |
| <b>Presentation</b>                | Title: Parameters Selection on Green and Inclusive Recovery Through Circular Economy (CE) and Low Carbon Development Initiative (LCDI) in Food & Beverages Related Sector |
|                                    | <b>Yosi Agustina Hidayat</b> , Bandung Institute of Technology (ITB), Bandung, Indonesia  |
| <b>Presentation</b>                | Title: Study of the Structural Determinants of the Urban Heat Island Phenomenon in the City of Kisangani in the DRC   |
|                                    | <b>Mbavumoja</b> , ERAIFT, Democratic Republic Of The Congo   |
| <b>Presentation</b>                | Title: Evaluating The Accuracy of The Thermal Comfort Model in Predicting Occupant Sensation in Hot Climate Air-Conditioned Office Buildings                              |
|                                    | <b>Abdulrahman Haruna</b> , De Montfort University, Nigeria   |
| <b>Presentation</b>                | Title: Impact of a 9 Kw Solar Power Plant on the Power Grid   |
|                                    | <b>Dostonbek</b> , Uzbekistan   |
| <b>Presentation</b>                | Title: Carbon Pricing in Germany's Road Transport and Housing Sector: Options for Reimbursing Carbon Revenues   |
|                                    | <b>Manuel Frondel</b> , RWI Leibniz-Institut für Wirtschaftsforschung, Germany  |

**Oral/Poster Slots Available**  
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| Category                | Price   |
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