



International Conference on

# Renewable Energy Conference 2023

Paris, France | October 23-25, 2023



**Mercure Paris Charles De Gaulle  
& Convention**  
Bp 20248 – Roissypole Ouest  
Route De La Commune  
95713 Roissy Cdg Airport Cedex, France



**Timezone:**



**renewable@uniscigroup.net**



**+1-469-854-2280/81**



**Program Last Updated on: August 28, 2023**

Last minute changes due to functional, private, or organizational needs can be necessary. The event organizer accepts no liability for any additional costs caused by a change of program. **Program is subject to change.**

## Scientific Sessions

Solar Energy  
Wind Power Energy  
Hydro Power  
Geothermal Energy  
Hydrogen and Fuel Cells  
Biomass (Biofuel, Biogas and Biomass)  
Photovoltaic cells  
Material sciences  
perovskite and piezoelectric cell  
Nuclear Energy

Desalination  
Sustainable and Clean Energy  
Power Energy Management  
Smart Grids and Simulations  
Global Challenges in Energy  
Energy storage and Conversion  
Fuel Cells and Applications  
Renewable Energy and Grid Integration  
Environment & pollution issues  
Nano energy  
Wave Energy

## Keynote Presentations | 30 Minutes

Moderator: To be Announced



**Deep Decarbonization of Multi-Energy Systems: A Carbon-Oriented**  
**Zhu Han**, University of Houston, Houston, TX



Converting Biomass-Derived Oxygenates into Sustainable Fuels and Chemicals

**Yong Wang**, Washington State University, Pullman, WA



Multi-Vector Energy Storage for Carbon Neutrality

**Yulong Ding**, Birmingham University, UK



To be Announced

**CHUA Kian Jon**, National University of Singapore, Singapore



To be Announced

**Zhangxing Chen**, University of Calgary, Canada

## Oral Presentations | 20 Minutes

Chair: **To be Announced**

Techno-Economic Wood Procurement Model from Renewable Forests for Profitable Energy Production in CHP Plant

**Teijo Palander**, University of Eastern Finland, Finland

Producing a Novel Biodiesel from Waste Doner Kebab Fat and Assessing its Fuel Properties Under Different Production Conditions

**Batuhan Erden**, Middle East Technical University, Turkey

Production of Ethyl Esters using Jatropha Curcas Oil using of Lipase Eversa Transform 2.0 as Biocatalyst

**Andreia Fatima Zanette**, São Paulo State University (UNESP), Brazil

Comparative Analysis of Various Nuclear Desalination Computation

**Salah Ud-Din Khan**, King Saud University, Saudi Arabia

Visualization inside Fuel Cell and Lithium-Ion Battery Under Operation Modes

**Shuichiro Hirai**, Tokyo Institute of Technology, Japan

A Direct Hybrid with Power Management for Aviation Applications

**Caroline Willich**, Ulm University, Germany

Evaluating power generation and direct use with green energy resources

**Shah Kabir**, University of Houston, Houston, TX, USA

Photoelectrocatalytic Study of N-Doped SrTiO<sub>3</sub>

**Krateeka Madan**, Indian Institute of Technology Madras, India

Nanostructured Mixed Oxides with an Ordered Morphology for Energy and Environmental Applications

**Elisa Moretti**, Ca' Foscari University of Venice, Italy

Cold Nuclear Fusion Reactions in Constantan – Successful Experiments

**Dimiter Alexandrov**, Lakehead University, Canada

Study and Design of Power Supply Based on Peltier to Charge the EV Battery

**Abdal Rahman**, Marmara University, Turkey

Enhanced Voltage and Frequency Regulation via an Intelligent Droop-based Control Strategy in an Islanded Microgrid

**Shu Godwill Ndeh**, University of Buea, Cameroon

Harnessing Solar Energy for Sorption-based Water Harvesting in Arid Areas

**Ahmed Mohamed Hamed Kandil**, Mansoura University, Egypt

Condition Monitoring and Control of Wind Power Systems with Machine Learning

**Xiandong Ma**, Lancaster University, UK

The Impact of Leading-Edge Deflection Angle on the Performance of Horizontal Axis Wind Turbine Model

**Aktham Mansi**, Istanbul Technical University, Turkey

Smart Solutions to Enhance the Renewable Wind Energy Production Possibilities at Residential Areas

**Fanel Scheaua**, Dunarea de Jos University of Galati, Romania

Reliability of Offshore Wind Turbine Support Structures

**Srinivas Sriramula**, University of Aberdeen, UK

Thermal Management of Photovoltaic Panel using a Passive and Active Cooling Approach

**Pravin D Sawarkar**, Visvesvaraya National Institute of Technology, India

Applications of Nanofluids in Solar Energy

**Awatef Abidi**, King Khalid University, Saudi Arabia

Study Design of Photovoltaic Pumping System for the Water Supply of an Agricultural Diversity

**Abdelbaki Yassaad**, Department of Electronic Engineering/CAO laboratory, Algeria

Development of an Innovative Daylighting Louver System Based on a Parametric Control Technique

**Ahamd Eltaweel**, Edinburgh Napier University, UK

Enhanced Performance and Stability of Organic Solar Cells by Interface and Photo-Active Layer Engineering

**Yuanbao Lin**, University of Oxford, UK

Accelerating Decarbonization Initiatives for Fertilizer Industry in Indonesia: Case Study of Pupuk Indonesia (State-Owned Enterprise)

**Syawaluddin Akbar**, Pupuk Indonesia, Indonesia

Plasma-Assisted Premixed Ammonia Flames: A Numerical Study

**Mehdi Jangi**, University of Birmingham, UK

Copernicus and Europe's Energy Independence: A Review of the Potential Contribution of Earth Observation Data to the REPowerEU Plan

**Ginevra Vittoria**, European Space Agency, Italy

Design and Simulation for Net Zero Energy House

**Omar**, Abu Dhabi University College of Engineering, Saudi Arabia

Molecular Investigation on the Mechanisms of Nitrogen Transformation in Ammonia Utilization

**Xi Jiang**, Queen Mary University of London, UK

Investigation of a New Model Combining Solar Tower and Spherical Solar Still Techniques in Solar Desalination

**Saad Eddine Lachhab**, Ibn Tofail University Kenitra Faculty of Sciences Kenitra, Morocco

Alternative Clean Energy: Lignite-Waste Biomass Mixture

**AYDAN**, Malatya Turgut Özal University, Turkey

Power Estimation for Thermoelectric Harvesters in Low and Ultra-Low Temperature Gradients through Dimensional Analysis

**Simon Lineykin**, Ariel University, Israel

Energy and Water Management Systems for Agro-Development of Rural Communities

**Doris Sáez**, University of Chile, Chile

Coordinated High-Speed Voltage Control in Real-Time Unobservable Active Distribution systems

**Anamitra Pal**, Arizona State University, Tempe, AZ

The Road to Renewable: 100% Renewable Electricity in New Zealand with Wind, Solar and Seasonal Energy Storage

**Stephen Poletti**, University of Auckland, New Zealand

Renewable Energy Proliferation Trough Energy Community: Analysis of a Case Study from Italy

**Barbara Marchetti**, The eCampus University, Italy

Optimal Sizing and Techno-Economic Feasibility Assessment of a Microgrid Consisting of PV/Wind/Compressed Air Energy Storage System

**Elaheh Bazdar**, Concordia University, Canada

Towards 26% Efficient Solar Cells in Mass Production with Doped Poly-Silicon Passivating Contacts

**Daniel Macdonald**, The Australian National University, Australia

Optimization of Laser Doping Selective Emitter for Silicon Solar Cells

**Samir Meziani**, Research Center on Semiconductors Technology for Energetics (CRTSE), Algeria

Unusual Aspects of Thermoelectric Transport

**Yuri G. Gurevich**, CINVESTAV Department of Physics, Mexico

Rational design of advanced heterostructures for solar energy conversion

**Anita Trenzczek-Zajac**, AGH University of Science and Technology, Poland

Perovskite materials: Alternative source of energy

**Vipul Srivastava**, Lovely Professional University, Phagwara, India

Enhancing Mechanical Properties through Jute Fabric Reinforcement in Poly Lactic Acid Composites

**Bharani Murugesan**, K. S. Rangasamy College of Technology, India

Smart Conductive Hydrogel-Based Gluten/Guar Gum for Eco-Friendly Strain Sensor and Self-Powered Device

**Pornnapa Kasemsiri**, Khon Kaen University, Thailand

A Study on the Kinetic Characteristics of Nanoscale Ceramic Powder Synthesis by Microwave-Assisted Heat Treatment

**Nam-Hee Cho**, Inha University, South Korea

Atomic and Electronic Structures of Energy Materials Studied by in Situ Synchrotron X-Ray Spectroscopy

**Chung-Li Dong**, Tamkang University, Taiwan

**Que Vadis Domine – on Future Retrofitting Residential Buildings**

**Mark Bomberg**, Clarkson University, Potsdam, NY, USA

**Study on Form-Stable Composite Metallic Phase Change Materials**

**Geng Qiao**, Global Energy Interconnection Research Institute Europe GmbH, Germany

**Challenges of REs in the Early 21st Century**

**Reza Hafezi**, National Research Institute for Science Policy (NRISP), Iran

**Developments in Cybersecurity for Critical and Renewable Energy Infrastructure**

**Josef Schindler**, Framatome GmbH, Germany

**Renewable Energy Use by a Solar Powered Airship**

**Christoph Pflaum**, University of Erlangen-Nuremberg, Germany

**Renewable Energy and Global Challenges Associated with the Pursuit of Well-Being**

**Van Le**, University of Economics Ho Chi Minh City (UEH), Vietnam

**Worldwide Climate and Justice Education Week 2024**

**David E Blockstein**, Annandale-on-Hudson, New York

**Why Humans are Not Responsible for Global Warming**

**Digby Macdonald**, University of California at Berkeley, Berkeley, CA

**Product Redesign in the Circular Economy: Enhancing Material Conservation and Energy Generation for Sustainability**

**Ali Zahedi**, Tecnologico de Monterrey, Mexico

**Nutrient Content of Liquid Organic Fertilizer**

**Elisa Azura Azman**, University Putra Malaysia, Malaysia

**Charging Batteries for Renewable Energy using Light-Mediated**

**Christopher S. Johnson**, Argonne National Laboratory, USA

**Two-Dimensional Nanocomposite Functional Materials for Sustainable Energy Storage Applications**

**Ramasamy Jayavel**, Anna University, India

**High-Temperature Thermochemical Heat Storage by Complex Transition Metal Hydrides**

**Shahrouz Nayeboadri**, University of Birmingham, UK

**Mn<sub>3</sub>O<sub>4</sub>-NiFe Layered Double Hydroxides (LDH)/Carbon Composite Cathode for Rechargeable Zinc-Air Battery**

**Nivedha**, Indian Institute of Technology Madras, India

**Design of Layered Cathode and Electrolyte for Improved Sodium-ion Batteries**

**CHANG WOO LEE**, Kyung Hee University, South Korea

**A High-Performance Phenazine Based Cathode for Aqueous Organic Zinc-ion Battery**

**PRIYA. V.**, Indian Institute of Technology Madras, India

**Combination of Nitro Isomers of Naphthoquinone on Delivering Improved Capacity and Cyclability to Zn-ion Batteries**

**Richa Gupta**, Indian Institute of Technology Madras, India

**Energy Conversion and Storage: Challenges from Materials' Science Perspectives**

**Riadh Neffati**, University Tunis El Manar and King Khalid University, Saudi Arabia

**An Empirical Study of the Impact of Greenwashing in Developed Versus Developing Countries**

**Shahrin Saaid Shaharuddin**, University of Malaya, Malaysia

Techno-Economic Calculator for Hydrogen Transport and Storage: An Assessment Tool to Support Early-Stage Commercialization

**Md Rizwan**, DNV AS, Norway

Mounting Horizon of Green Energy Materials for Green Energy Storage Devices

**R B Choudhary**, Indian Institute of Technology, India

Can Supercapacitors Change the Roadmap of Power Electronics for Renewable Energy Systems

**Nihal Kularatna**, The University of Waikato, New Zealand

Integrated Algal-Oil Palm Biorefinery for Sustainable Energy and Bioproducts Co-generation

**Mohd Azmuddin Abdullah**, SIBCo Medical and Pharmaceuticals Sdn. Bhd, Malaysia

## Poster Presentations

*In-Situ* Integration of Co-Active Sites in MnO@C Composite for Zinc-Air Battery Driven Water Splitting

**Gnanaprakasam Janani**, Korea Institute of Energy Technology (KENTECH), South Korea

Nitrogen-Rich Functionalized Carbon Wrapped on Cop/Ag: A Dynamic Multifunctional Electrocatalyst for Zinc-Air Battery Driven Water Splitting System

**Subramani Surendran**, Korea Institute of Energy Technology (KENTECH), South Korea

Green Storage for Green Hydrogen: The Gas Hydrate Platform

**Sahar Jafari Daghalian Sofla**, McGill University, Canada

Low-cost Functionalized Graphene Nano Fiber/Nafion Composite Cation Exchange Membrane for Vanadium Redox Flow Battery application

**Harun Khan**, Indian Institute of Technology Madras, India

High Performance Non-Aqueous Organic Redox Flow Battery in Ambient Condition

**Sandeep Kumar Mohapatra**, Indian Institute of Technology Madras, India

Machine Learning Aided Capacitance Prediction for Hybrid Zinc-Ion Capacitors and Employing Organic Redox Additives for Enhancing the Energy Density

**Sravani Potham**, Indian Institute of Technology Madras, India

The Real Cost of Electric Vehicles: A Comparative Analysis of Community Participation and Foreign Investment in the Lithium Triangle

**Thomas Martynowicz**, University of Southern California, USA

Photoelectrocatalytic Study of N-Doped SrTiO<sub>3</sub>

**Krateeka Madan**, Indian Institute of Technology Madras, India

Study In Transient Regime of The Electrical Parameters of a Silicon Solar Cell with Multi Vertical Junctions Connected in Parallel and Placed in Short-Circuit: Influence of Temperature and Magnetic Field

**Pape Diop**, Cheikh Anta Diop University of Dakar, Senegal

A Study on the Optimal Control Strategies of Hydrogen City in South Korea  
**MinSu Kim**, Korea Electric Power Engineering & Construction (KEPCO E&C), South Korea

"Exploring the Significance of Hydrothermal Liquefaction Process in Biomass Conversion and the Prospects of Utilizing Waste Process Water in Diverse Sectors: An Investigative Study"

**Sectors: An Investigative Study " Halil Durak**, Yuzuncu Yil University, Turkey

Real-time Thermal Energy Harvesting from Solar Radiation in Malaysia at Low-Temperature Difference

**Muhammad Nazri Rejab**, Universiti Tun Hussein Onn Malaysia, Malaysia

Bio - hydrogen from municipal wastes: preliminary results of MoDSEn project.

**Graziano Tassinato**, Green Propulsion Laboratory, VERITAS spa, Italy

Experimental study of heat and mass transfer during thermal runaway of a Li-ion cell

**Charbel Nouhra**, Grenoble Alpes University, France

## Titles to be Announced

**Anastasia Vyalikh**, Technical University of Dresden, Germany

**Dalia Patino-Echeverri**, Duke University, Durham, NC, USA

**Su Ha**, Washington State University, USA

**Francesca VALETTI**, University of Torino, Italy

**DE PERSIS**, ICARE CNRS Univ ORLEANS, France

**OLALEKAN ADELEKE SHOGBESAN**, SHOLEP ENERGY LIMITED, Nigeria

**Yubiao Sun**, Beijing Institute of Technology, China

**Christine Backman**, Cal Poly Humboldt, USA

Presentation Slots Available.....

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