

**5th Edition of Renewable and Sustainable
Energy Virtual**

MARCH 03-04, 2023



V-Renewable2023

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Webinar
Timings

Speakers
Timings

07:00 – 07:10

Introduction



Plenary Sessions

07:10 – 07:50

08:10 – 08:50

Title: New solutions for storing and using surplus electricity in Methanol

Edgar Harzfeld, Stralsund University, Germany.

07:50 – 08:30

15:50 – 16:30

Title: Human Extinction: Inevitable Or Avoidable

Jorg Imberger, UCL and RSMAS University, Australia.

08:30 – 09:10

17:30 – 18:10

Title: Graphene-based Nanostructures for Sustainable Engineering

Katsumi Kaneko, Shinshu University, Japan.

09:10 – 09:50

17:10 – 17:50

Title: Interfacial engineering for efficient perovskite solar cells

Hua Yu, Southwest Petroleum University, China.



Keynote Sessions

09:50 – 10:25

10:50 – 11:25

Title: Thermodynamic Stability of Polymer Blends for Solar Cells: From Experiments to Predictive Modeling

Claudia Caddeo, Istituto Officina dei Materiali, Italy.

10:25 – 11:00

18:25 – 19:00

Title: Two-Dimensional Layered Materials as Catalysts Support for Low Temperature CO₂ Conversion

Wan Nor Roslam Wan Isahak, Universiti Kebangsaan Malaysia, Malaysia.

11:00 – 11:35 19:00 – 19:35

Title: Recent NiCo₂O₄-based Composite Materials for Fuel Cell Applications

Norazuwana Shaari, National University of Malaysia, Malaysia.

11:35 – 12:10 19:35 – 20:10

Title: Economic Analysis of Rooftop Solar Photovoltaic System for Net Energy Metering Scheme Using Zero CAPEX model

Azli Abd Razak, Universiti Teknologi MARA, Malaysia.

12:10 – 12:45 15:10 – 15:45

Title: Flexible Transmission Network and Integration of Renewable Sources of Energy

Masood Jabarnejad, Dogus University, Turkey.

12:45 – 13:20 09:45 – 10:20

Title: Multi-functionality of ceria-based nanomaterials: from magnetism to therapeutic properties

Leandro Silva Rosa Rocha, Federal University of São Carlos (UFSCar), Brazil.

End of the Day 1

07:00 – 07:10

Introduction



Plenary Sessions-1

07:10 – 07:50

15:10 – 15:50

Title: Microwave-assisted gasification of biomass for syngas production

Yaning Zhang, Harbin Institute of Technology, China.

07:50 – 08:30

15:50 – 16:30

Title: Chemical Kinetics for Fuel Combustion: from Hydrogen to Larger Hydrocarbons

Yingjia Zhang, Xi'an Jiaotong University, China.

Keynote Sessions

08:30 – 09:05

16:30 – 17:05

Title: Snow-melting system driven by the geothermal energy in Harbin, China

Wenke Zhao, Harbin Institute of Technology (HIT), China.

09:05 – 09:40

11:05 – 11:40

Title: Micro-grids with 100% Marine Renewable Energies

Hady H Fayek, Heliopolis University, Egypt.

09:40 – 10:15

17:40 – 18:15

Title: Hybrid Wave Energy Converter

Mohd Rosdzimin Abdul Rahman, Universiti Pertahanan Nasional Malaysia, Malaysia.

10:15 – 10:50

18:15 – 18:50

Title: Investigation on the battery thermal management and thermal safety performance with flame-retardant phase change composites

Xinxi Li, Guangdong University of Technology, China.

10:50 – 11:25

18:50 – 19:25

Title: Dimensionality of Sustainable Suburban Socio-economic Development Service

Boo Ho Voon, Universiti Teknologi MARA, Malaysia.

11:25 – 12:00

19:25 – 20:00

Title: Organic sewage as renewable energy: pathway, feasibility and preliminary experimental verification

Xi Huan, Xi'an Jiaotong University, China.



Invited Sessions

12:00 – 12:20

13:00 – 13:20

Title: Cation effects on CO₂ electroreduction at Au-water interfaces

Xueping Qin, Technical University of Denmark, Denmark.

12:20 – 12:40

15:20 – 15:40

Title: Carbon Based Materials for Future Nano Technology

Habtamu Fekadu Etefa, Dambi Dollo University, Ethiopia.

12:40 – 13:00

13:40 – 14:00

Title: ENERGY RECOVERY FROM WASTE IN (biomass)

Sara Belarouf, National School of Mines of Rabat, Belgium.

13:00 – 13:20

20:00 – 20:20

Title: Evaluation of The Effectiveness of The Regional Wastewater Treatment Plant in Bali

Kadek Diana Harmayani, Udayana University, Indonesia.

13:20 – 13:40

16:20 – 16:40

Title: Smart and Innovative Building Approaches for Sustainable Energy based on Zero-Emission Targets

Aytac Perihan Akan, Hacettepe University, Turkey.



Plenary Sessions-2

13:40 – 14:20

21:40 – 22:20

Title: Product characteristics and mechanism of hydrothermal liquefaction of municipal

Donghai Xu, Xi'an Jiaotong University, China.

14:20 – 15:00

09:20 – 10:00

Title: Multi-platforms (MPs) Integrated Bio-Refineries (IBRs) for Sustainable Development (SD)

Said S.E.H.Elnashaie, University of Waterloo, Canada.

15:00 – 15:40

10:00 – 10:40

Title: Contactless Magnetic Sensing in Condition Monitoring and Anomaly Detection for Smart Grid: New Possibilities and Alternatives

Philip W T Pong, New Jersey Institute of Technology, United States.

15:40 – 16:20

10:40 – 11:20

Title: Tidal/Current Energy Harvesting Using a Novel Geared Infinitely Variable Transmission

Weidong Zhu, University of Maryland, USA.

16:20 – 17:00

17:20 – 18:00

Title: Sustainable and Resilient Charging Infrastructure using Methanol Storage

Edgar Harzfeld, Stralsund University, Germany.

End of the Day 2
&
Closing Ceremony