

V-RSE2025

9th Edition of

Renewable and Sustainable Energy

Virtual

December 05-06, 2025

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Webinar
Timings

Speakers
Timings

07:00 – 07:10

Introduction

07:10 – 07:45

01:10 – 01:50 P

Title: In Situ Studies and Numerical Simulations to Reveal Unique Properties of Titania nanotubes

Oomman K Varghese, University of Houston, USA.

07:50 – 08:30

15:50 – 16:30 P

Title: Hydrothermal conversion of wet biomass to liquid fuel: production, upgrading and byproduct recycling

Donghai Xu, Xi'an Jiaotong University, China.

08:30 – 09:00

09:30 – 10:00 K

Title: Nuclear Fusion Energy: a Steep Revolution

Ivan Gnesi, University of Turin, Italy.

09:00 – 09:30

10:00 – 10:30 K

Title: System Perspectives on Sweden's Electricity Demand and Energy Transition

Louise Ödlund, Linköping University, Sweden.

09:30 – 10:00

13:30 – 14:00 K

Title: Digital Transformation for a Greener Future: Harnessing Emerging Technologies for Renewable Energy and Sustainability in Small Island Developing States (SIDS)

Mevin Luchoo, University of Technology, Mauritius, Mauritius.

10:00 – 10:40

19:00 – 19:40 P

Title: Carbon Nanostructure-based Energy Materials Science

Katsumi Kaneko, Shinshu University, Japan.

10:40 – 11:10 18:40 – 19:10 K

Title: Comparative Analysis of Energy Profiles under General and Time of Use Tariff Structures with Battery Energy Storage Integration

Ho Wai Shin, Universiti Teknologi Malaysia, Malaysia.

11:10 – 11:40 19:10 – 19:40 K

Title: Optimization of the Concentration of Pineapple Juice Using Progressive Freeze Concentration

Mazura Jusoh, Universiti Teknologi Malaysia (Utm), Malaysia

11:40 – 12:10 15:40 – 16:10 K

Title: Sustainable ICT – from agenda to practice

Ravi Foogooa, University of Technology, Mauritius, Mauritius

12:10 – 12:40 06:10 – 06:40 K

Title: Synthesis and Thiol-Ene Photopolymerization of Biobased Aromatic–Aliphatic Hybrid Monomers Derived from Limonene, Cysteamine, and Hydroxycinnamic Acid Derivatives

Ricardo Acosta Ortiz, Center for Research in Applied Chemistry, Mexico

12:40 – 13:10 07:40 – 08:10 K

Title: Technical Considerations for Offshore Wind Generation in México

Aurelio Medina-Rios, Universidad Michoacana de San Nicolás de Hidalgo, México

End of The Day-1

Webinar
TimingsSpeakers
Timings

07:00 – 07:10

Introduction

07:10 – 07:40

15:10 – 15:40 K

Title: Z scheme photocatalyst of ternary heterostructure Au@C-WS₂/WO₃ for highly-efficient photocatalytic hydrogen evolution

Mohd Hasmizam Razali, University of Terengganu, Malaysia

07:40 – 08:10

11:40 – 12:10 K

Title: The global sewage problem and the novel bioreactor SHEFROL which treats sewage using only direct solar and gravitational energy

S.A. Abbasi, University of Petroleum and Energy Studies (UPES), India

08:10 – 08:40

16:10 – 16:40 K

Title: Artificial Intelligence Integration in Mechanical Engineering Research for Renewable Energy Advancement in Malaysia

Baljit Singh, Universiti Teknologi MARA, Malaysia

08:40 – 09:10

14:40 – 15:10 K

Title: Greening Education for a Renewable Future: The Bangladesh Experience

Bidhan Chandra Pal, Probha Aurora, Bangladesh

09:10 – 09:40

10:10 – 10:40 K

Title: Optimization and Characterization of Bio-Oil Production from Biomass Using Al₂O₃ Catalyst

Adekunle Akanni Adeleke, Nile University of Nigeria, Nigeria

09:40 – 10:10

11:40 – 12:10 K

Title: Hydrocracking process parameters

Patricia J Kooyman, University of Cape Town, South Africa

10:10 – 10:40

15:40 – 16:10 K

Title: Production of Inexpensive Activated Carbon from Disposable Coconut Shells and Its Key Characteristics Analysis

Suresh Aluvihara, University of Peradeniya, Sri Lanka, Sri Lanka

10:40 – 11:20 05:40 – 06:20 P

Title: 2D Semiconductors for Photovoltaics: Do they make sense?

Deep Jariwala, University of Pennsylvania, USA

Closing Ceremony