



# V-POWER2023

**2<sup>nd</sup> Edition of**

**Power and Energy  
Engineering**

**Virtual**

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Webinar  
TimingsSpeakers  
Timings

07:00 – 07:10

Introduction

07:10 – 07:45

12:40 – 13:05

K

Title: Scalable Hydrogen Energy Production through Overall Catalysis using Advanced Heterojunction Nanomaterials

**Токеer Ahmad, Jamia Millia Islamia, India.**

07:45 – 08:20

10:45 – 11:20

K

Title: Sustainable Energy Transition for Net-Zero Vision

**Deepak L Waikar, IEEE Education Society Chapter, Singapore.**

08:20 – 08:55

08:20 – 08:55

K

Title: The Importance of Green Hydrogen for a Sustainable Tomorrow

**Diogo Miguel Franco dos Santos, CeFEMA, Instituto Superior Tecnico, Universidade de Lisboa, Portugal.**

08:55 – 09:30

10:55 – 11:30

K

Title: Managing high levels of distributed energy resources (DERs) in smart grids

**Oliver Dzobo, University of Johannesburg, South Africa.**

09:30 – 10:05

17:30 – 18:05

K

Title: Comparative Analysis of Carbon Footprints: Assessing CO<sub>2</sub> Emissions from Electricity Generation in G7 Nations through Static and Dynamic Panel Approaches

**Abdul Rahim Ridzuan, Universiti Teknologi MARA, Malaysia.**

10:05 – 10:40

11:05 – 11:40

K

Title: Fractional-order control for advanced development of renewable energy systems

**Samir Ladaci, Ecole Nationale Polytechnique, Algeria.**

10:40 – 11:15

16:10 – 16:45

K

Title: Water footprint comparison of a naphtha-fired combined cycle power plant and a coal-fired steam power plant

**Sankalp Arpit, Global Climate and Development Institute/ Swaniti Initiative, India.**

11:15 – 11:50

14:15 – 14:50

K

Title: Shape Reversibility and Energy Dissipation at Thermomechanical Cycles in Shape Memory Alloys

**Osman Adiguzel, Firat University, Elazig, Turkey.**

11:50 – 12:25	14:50 – 15:25	K	Title: Improving the Fatigue Design of Mechanical Systems such as Refrigerator <b>Seongwoo Woo, Ethiopian Technical University, Ethiopia.</b>
12:25 – 13:00	07:25 – 08:00	K	Title: Tidal Current Energy Harvesting Using a Novel Geared Infinitely Variable Transmission <b>Weidong Zhu, University of Maryland, USA.</b>
13:00 – 13:40	13:00 – 13:40	P	Title: Potential of Electrochemical Sources to Add Value to Electricity System <b>John TS Irvine, University of St Andrews, UK.</b>
13:40 – 14:00	14:40 – 15:10	I	Title: Renewable Energy Generators: The case study of a flux switching hybrid excited Vernier effect synchronous generator <b>Yacine Amara, GREAH, Universite Le Havre Normandie, France.</b>
14:00 – 14:20	14:00 – 14:20	I	Title: AI driven advanced diagnostics and lifetime extension for lithium ion batteries <b>Haijun Ruan, Institute for Clean Growth and Future Mobility, Coventry University, UK.</b>
14:20 – 14:40	17:20 – 17:40	I	Title: Smart Grid and Renewable Energy Integration <b>Hassan Z Al Garni, Royal Commission for Jubail and Yanbu - Jubail Industrial College, Saudi Arabia.</b>

**Closing Ceremony**