



## India-UK Workshop on Net-Zero Emission Provisions for Transportation

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Date: Monday 21<sup>st</sup> November 2022

Time: 09:00 (GMT)

Venue: Craiglockhart, ENU.

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### Overview:

A joint workshop between UK- India on decarbonising the transport sector. The theme will cover fuel cells, batteries, automation and design aspects of transport and adopting renewable energy into the transport sector. The collaboration is between ENU, PSG College of Technology and Vellore Institute of Technology, India.

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### Agenda

- 09:00** Welcome and Introduction – Dr Senthilarasu Sundaram, Edinburgh Napier University, Edinburgh, UK
- 09:05** Advancements in Fuelcell Technology: Fuel Cell Stack Thermal Management Systems and Balance of Plants considered for Range Extender for eVehicles – Prof. Karthikeyan Palanisamy, PSG College of Technology, Coimbatore, India
- 10:35** Numerical Simulation of thermal management of Lithium-Ion Batteries using Phase Change Materials for electric vehicles – Prof. Thundil Karupparaja, VIT, Vellore, India
- 11:00** *Coffee/Tea Break*
- 11:10** Applications of Fuzzy Logic and Neural networks for Electric Vehicles – Prof. Denis Ashok, VIT, Vellore, India
- 11:30** Advancement in PV powered Electrical vehicles – Dr. Jubaer Ahmed, Edinburgh Napier University, UK
- 11:50** Power converters in EV charging – Prof. Elangovan, VIT, Vellore, India
- 12:15** Side Channel Hacking of EV Chargers – Prof. Bill Buchanan, Edinburgh Napier University
- 12:45** *Meeting Close*