



Online EPSRC Engineering Net Zero (ENZ) Workshop

## Challenges and Opportunities of Net Zero Energy and Transport Pathways

Monday 20<sup>th</sup> June 2022, 9:00-13:00, online only

Northumbria University

Zoom Link:

<https://zoom.us/j/93461676362?pwd=VnZnTHEzU1E0SHRUWW9BQW1FSi80dz09>



Attendance is free, but registration is recommended

<https://www.surveymonkey.co.uk/r/HZDRXRW>

This workshop is to share the progress of and stakeholder's perspective on the research project **EFORES** ([Electric Fleets with On-site Renewable Energy Sources](#), one of the [seven new feasibility study projects to find digital solutions to reducing energy demand](#), jointly sponsored by EPSRC and Siemens. By bringing researchers, industry leaders, technology innovation people and local councils together, we aim at raising awareness of digital solutions to promoting EVs and renewable energy sources in the pathways of road transport decarbonisation.

### Agenda

- 09:00 – 09:10** Welcome and opening speech
- 09:10 – 09:30** **Graham Grant** (Head of Transport, Newcastle City Council)  
Newcastle upon Tyne's approach towards Transport  
Decarbonisation
- 09:30 – 09:45** **Dr. Xuewu Daniel Dai** (Northumbria University)  
Electric Fleets with On-site Renewable Energy Sources: a  
data-driven approach
- 09:45 – 10:00** **Dr. Ricahrd Kotter** (Northumbria University)  
Net Zero Innovation Programme (LGA)
- 10:00 – 10:15** **Dr Shaun Shen** (Northumbria University)  
Wind turbine research

## 10 min break

**10:25 – 10:45 Dr. Chungjiang Jia** (Offshore Renewable Energy Catapult)  
Wind Turbine Testing and Monitoring

**10:45 – 11:15 Gary McRae** (Head of Electric Mobility, Urban Foresight)  
Low emission fleets with renewable EV charging

**11:15 – 11:45 Jonathan Barlow** (Senior Transport Planner, South Tyneside Council)  
EV Charging - A Local Authority Perspective

**11:45 – 12:00 Prof. Dr Colin Herron OBE** (Zero Carbon Futures, MD / Faraday Institution, Newcastle University)  
TBC

## 15 min break

### 12:15 - 12:45 Half-hour panel discussion:

**Tim Rippon** (Climate Change Advisor, Newcastle City Council)  
**Jonathan Barlow** (Senior Transport Planner, South Tyneside Council)  
**Chungjiang Jia** (ORE catapult)  
**Colin Herron** (MZ Zero Carbon Futures and Faraday)  
**Mathew Lumsden** (CEO, Connected Energy, TBC)  
**Prof. Nauman Aslam** (Northumbria University)  
**Richard Kotter** (Northumbria University)  
**Xuewu Dai** (Northumbria University)  
**Handong Li** (Northumbria University)

#### Topics to be discussed, but not limited to:

1. Technology innovations and applications towards NZ road transport
2. Barriers in implementation new technology toward NZ road transport
3. Challenges to infrastructure to integrate more uncertain renewable energy sources
4. Organisational changes towards Net zero road transport
5. Data management is needed to Net zero road transport

### 13:00 Closing of the workshop

#### Join us at the EPSRC Engineering Net Zero Week:

- **In person**, physical showcase **21 - 23 June 2022**  
(Advanced Research Centre, University of Glasgow)
- **Online** all week **20 – 24 June 2022**

