

## Seminar on Vehicle for Energy Services

8<sup>th</sup> November 2019, Newcastle upon Tyne, UK

Room 252 Northumberland Building, Northumbria University City Centre Campus

Building no 19 on the Northumbria University City Campus map linked here

<https://northumbria-cdn.azureedge.net/-/media/corporate-website/new-sitecore-gallery/services/campus-services/documents/campus-maps/city-campus-map.pdf?modified=20190307105253>

**Attendance is free but registration is required at:**

<https://www.eventbrite.co.uk/e/vehicle-for-energy-services-v4es-seminar-tickets-77328675149>

The increasing penetration of distributed energy resources and electric vehicles necessitates the integration of renewable energy generation and electric mobility in a sustainable urban mobility and energy plan (SUMEP). The realisation of SUMEP needs the use of vehicle for energy services (V4ES), via smart charging and vehicle to grid. V4ES helps improve energy autonomy, reduce carbon footprint, defer upgrade of grid infrastructure, and reduce cost of ownership and use of both energy and transport. The successful implementation of V4ES relies on technical advancement, regulatory support, and viable business models. This seminar aims to explore these different dimensions of V4ES from the aspects of research insights, industrial practices and applications, as well as policy recommendations.

### Programme

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| <b>09:00 – 09:30</b> | <b>Arrival / Refreshments</b>  |
| <b>09:30 – 09:40</b> | <b>Welcome</b><br>Dr. Richard Binns, Northumbria University  |
| <b>09:40 – 10:00</b> | <b>The need for V4ES and context</b><br>Ghanim Putrus, Northumbria University                                  |
| <b>10:00 – 10:20</b> | <b>e4future: large-scale demonstrator on V2G</b><br>Myriam Neaimeh, Newcastle University                       |
| <b>10:20 – 10:40</b> | <b>Lessons learnt from operational pilots</b><br>Jorden van der Hoegt and Esther van Bergen, Cenex Netherlands |
| <b>10:40 – 11:00</b> | <b>Lessons on V4ES in a UK home</b><br>Chris Rimmer, Cenex UK  |
| <b>11:00 – 11:20</b> | <b>Refreshments</b>  |

- 11:20 – 11:40**      **Amsterdam action on clean air and climate**  
Doede Bardok and Jaap Burger, City of Amsterdam
- 11:40 – 12:00**      **Developing and delivering lower emissions strategies; a local authority perspective**  
Chris Randall, Leicester City Council
- 12:00 – 12:20**      **Policy recommendations and regulatory support to local authorities with EV uptake in Sustainable Urban Mobility Plans**  
Florinda Boschetti, POLIS
- 12:20 – 12:40**      **V4ES business models from the perspective of the automotive industry and EU regulation**  
Jayson Dong, AVERE
- 12:40 – 13:30**      **Lunch and networking**
- 13:30 – 13:50**      **Powering Johan Crujff ArenA stadium with EV batteries**  
Tim Oosterop, Amsterdam Arena and Jan Winkler, Mobilityhouse
- 13:50 – 14:10**      **Smart charging applications for E-bus depots**  
Stefan Haass, Siemens
- 14:10 – 14:30**      **Stationary storage, second life batteries, energy autonomy and grid support**  
Warren Hayes, Connected Energy
- 14:30 – 14:50**      **Refreshments**
- 14:50 – 15:10**      **V4ES business models, considering battery degradation**  
Kotub Uddin, Sterling and Wilson
- 15:10 - 15:30**      **DSO view, interaction and impact of V4ES**  
Iain Miller, Northern Powergrid
- 15:30 – 15:50**      **Quantifying variables preventing an accurate energy model**  
Colin Herron, Zero Carbon Futures
- 15:50 – 16:15**      **Questions and Discussion**  
Richard Kotter, Northumbria University



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