

Smart Charging and V2G Webinar Series



Smart Charging and V2G Webinar Series

- ▶ Aim: Find out who is doing what on Electric Vehicle Charging Infrastructure.
- ▶ Objective: Collaborate in the development of a fit for purpose EV charging infrastructure.
- ▶ UK Policy development (Consultation, Secondary legislation on smart charging)

The screenshot shows the UK legislation website (legislation.gov.uk) for the Automated and Electric Vehicles Act 2018. The page includes a search bar, navigation links, and a table of contents. The table of contents lists sections such as 'PART 1 Automated vehicles: liability of insurers etc.' and 'PART 2 Electric vehicles: charging'. The status is noted as 'This is the original version (as it was originally enacted)'.

The screenshot shows the GOV.UK website navigation menu. It includes a search bar and links for 'Departments', 'Worldwide', 'How government works', 'Get involved', 'Consultations', 'Statistics', and 'News and communications'.

Home > Transport > Driving and road transport > Road transport and the environment > Low emission and electric vehicles

Open consultation Electric vehicle smart charging

Published 15 July 2019
Last updated 19 July 2019 — [see all updates](#)
From: [Department for Transport](#) and [Office for Low Emission Vehicles](#)

Summary

Proposals for regulations to ensure that electric vehicle chargepoints sold or installed in the UK have smart charging functionality included.

This consultation closes at
11:45pm on 7 October 2019

Consultation description

Consultation on proposals for electric vehicle chargepoint smart technology regulations. The proposed regulations would require that electric vehicle chargepoints sold or installed in the UK have smart charging functionality included.

Landing Page

<https://www.ncl.ac.uk/cesi/events/webinars/v2gwebinars/>

- ▶ Recordings and slides
- ▶ Details for future events

The screenshot shows the Newcastle University website. At the top left is the Newcastle University logo. To the right is a navigation menu with links: Who we Are, Work with Us, Research, Study, Alumni, and Staff & Students. Below the navigation is the text 'National Centre for Energy Systems Integration'. A breadcrumb trail reads: Newcastle University > National Centre for Energy Systems Integration > Events > Webinars > Webinar Series - EV Smart charging. On the left is a sidebar menu with links: Research, Working with Industry, About Us, Our Team, News, Events, Launch Event, and Webinars. The 'Webinars' link is highlighted in red. Below the sidebar is the main content area. The title is 'Electric Vehicles' Smart Charging Webinar Series'. Below the title is a paragraph: 'This series of webinars provides an introduction to vehicle to grid (V2G) and smart charging projects and topics, with invited guest speakers from institutions in the UK and overseas.' Below the paragraph are three webinar items, each with a green plus icon in a circle: 'Smart Charging and V2G - Introduction to ongoing activities in the US and UK', 'Communication Protocols for Electrical Vehicle Charging - Introduction to OCPP', and 'Electric Vehicles and Demand Response using OpenAPR'. At the bottom of the sidebar, there is a red link: 'Webinar Series - EV Smart charging'.

Alan Turing Institute- Vehicle Grid Integration

Vehicle grid integration | The Alan Turing Institute

turing.ac.uk/research/research-projects/vehicle-grid-integration

Home + Research + Research projects

Vehicle grid integration

Using data science to modernise transport and electricity infrastructure

Learn more ↓

Related programmes
Data centric engineering

Research areas

Communications Optimisation

- ▶ Apply and develop data science methods and tools to help in the transformation of electricity and transport infrastructure into sustainable and efficient infrastructure, while maintaining reliable operation.
- ▶ Contribute to open communication protocols for vehicle grid integration.

Introduction

Electric vehicles (EVs) can break our dependence on fossil fuels in transport and energy sectors. However, mass adoption of EVs introduces significant and disruptive electricity demand to meet the charging needs of these vehicles. Vehicle grid integration strategies, underpinned by data science, ensure that electric vehicle charging infrastructure is synergistic with the electricity grid, reliable, cost effective and sustainable.

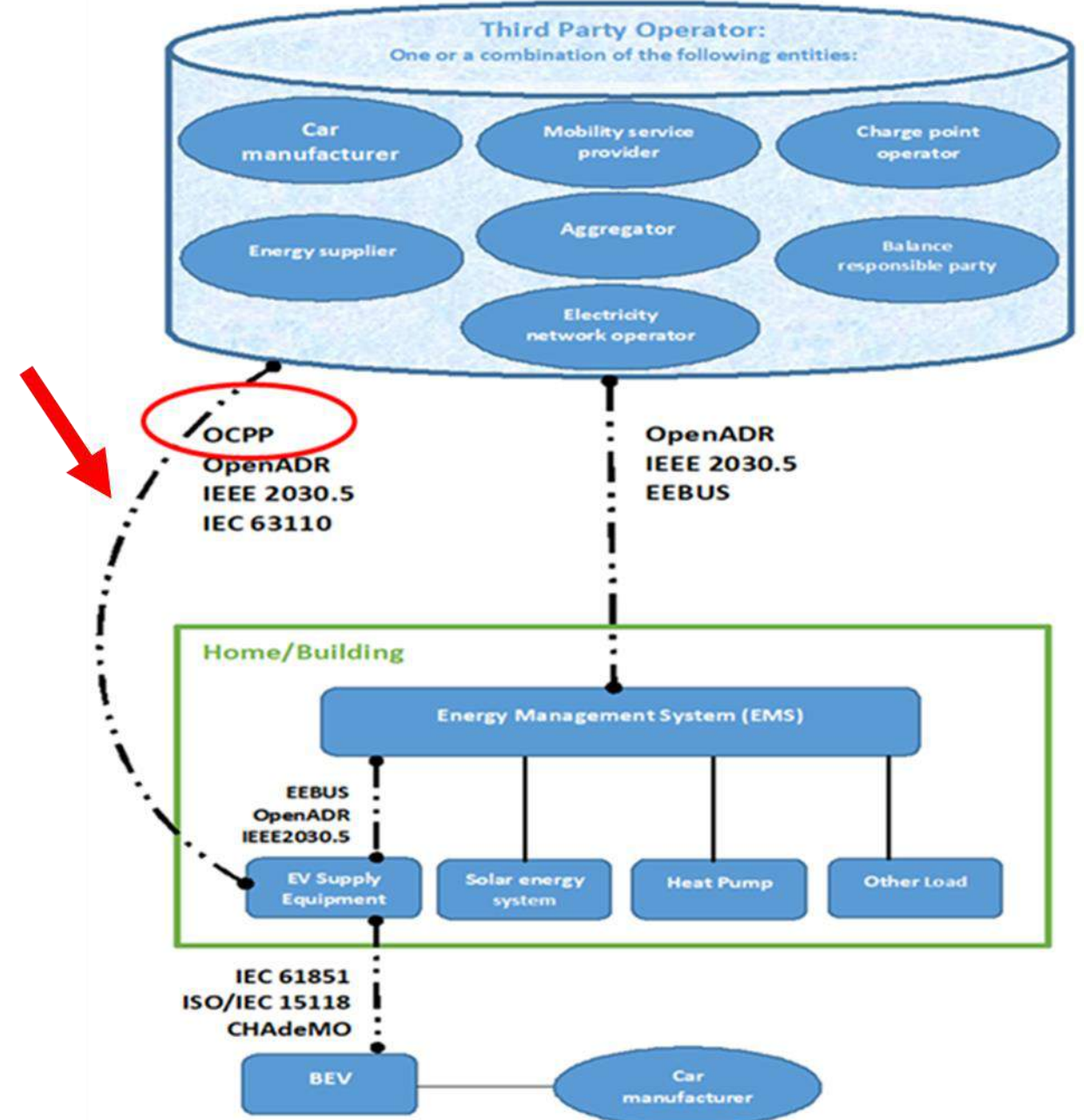
Explaining the science

Jump to

- Research areas
- Introduction
- Explaining the science
- Project aims
- Applications
- Organisers
- Researchers
- Contact info

EV ecosystem for smart charging-communication protocols

- EV charging management strategies is key.
- Energy and mobility entities involved.
- Information and control objects exchange.
- Communication protocols provide a set of rules and guidelines to facilitate the communication and data exchange between two or more entities.



Neaimeh and Andersen, 2019, *in review*

Upcoming event

- ▶ Rolf Bienert, Technical Director- OpenADR Alliance

Communication Protocols for Electrical Vehicle Charging- Introduction to OpenADR

Date: 2nd October 2019. 16:00-17:00 UK time.

This webinar will introduce Open Automated Demand Response (OpenADR) standard, which is used to communicate with distributed energy resources

<https://www.ncl.ac.uk/cesi/events/webinars/v2gwebinars/>

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<https://www.turing.ac.uk/research/research-projects/vehicle-grid-integration>



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Today's speaker

Robert de Leeuw, [ihomer](#) and [Open Charge Alliance](#)

Open Charge Point Protocol (OCPP)