



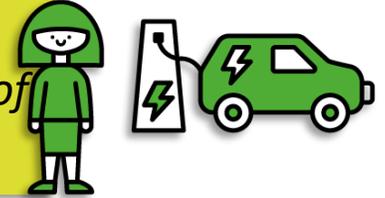
Office for Low  
Emission Vehicles

# Electric Vehicle Energy Taskforce Welcome

Philip New, Taskforce Chair  
CEO Energy Systems Catapult

# The EV Energy Taskforce: Terms of Reference

**Objective:** *To put engaging the electric vehicle user at the heart of preparing the electricity system for the mass take up of electric vehicles (EV), ensuring that costs and emissions are as low as possible, and opportunities for vehicles to provide grid services are capitalised upon for the benefit of the system, energy bill payers and electric vehicle owners. – EVET TOR.*



## In scope

- The impacts of EVs on the GB electricity system
- EV user engagement
- Coordination on consumer protection
- Near and long-term effects
- Facilitation of charging infrastructure connections
- The role for smart charging
- Data requirements, sharing and protection

## Out of scope

- Forecasting of EV uptake
- Where to deploy charge points
- The definition of standards
- Non-smart charge points

# The EV Energy Taskforce - Stakeholders



# The Electric Vehicle Energy Taskforce

## Aims

Understand how the energy system must adapt to ensure it can play its part in enabling the rapid uptake of EVs

## Focus

Underlying infrastructure needed – physical and data

Needs of consumer

Enabling mechanisms

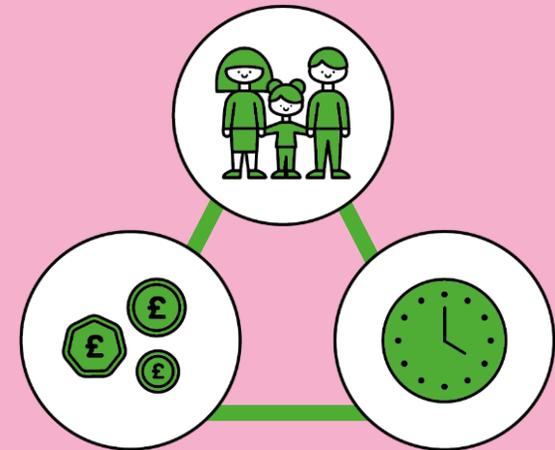
## Outputs

Deliver recommendations to Government and industry

**Enablers and barriers**

**Options**

## Dimensions



# Approach: work packages and emerging questions

**1** A common strategic understanding of the requirements of the energy system to support mass EV uptake

At what levels of EV deployment, and where on the system, do effects appear; and what are their relative implications?

What are the options for appropriately managing the combined effects to enable an effective transition to EVs; over the near-term and the long-term?

**2** Engaging EV users in smart charging and energy services

How can compelling customer charging offerings be created that deliver utility, affordability and clean miles; whilst also maximising the benefits to, and minimising the negative impacts on, the electricity system?

**3** Smart charging technical requirements

What are the technical requirements for enabling effective: interoperability, data privacy and cyber security?

**4** Accessible data for decision making

What data and data sharing is required and on what basis?

## Emerging themes: Enablers and barriers

### Enablers

- Definition of data requirements
- Data sharing and interoperability
- Deepening cross-sector collaborations
- Leveraging a growing set of research studies and trials
- Innovative business models
- Policy and regulatory frameworks
- Agreement as to where and when standards are required
- Alignment of views on priorities across the electricity sector

### Barriers

- Absence of data on network capacities
- Misalignment of investment cycles across sectors
- Absence of alignment and information asymmetries
- Misaligned commercial incentives
- Inability to price risk

# Getting Involved

The EV Energy Taskforce has been formed at the request of the UK Government...

*“To put engaging the electric vehicle user at the heart of preparing the electricity system for the mass take up of electric vehicles (EV), ensuring that costs and emissions are as low as possible, and opportunities for vehicles to provide grid services are capitalised upon for the benefit of the system, energy bill payers and electric vehicle owners.”*

- The work programme is underway
- Engagement from the automotive, energy and other sectors is encouraged

**CATAPULT**  
Energy Systems

**LowCVP**  
Low Carbon Vehicle Partnership

Office for Low Emission Vehicles

## Electric Vehicle Energy Taskforce

About Objectives Work Programme Latest News Resources Events Submit your interest

The Electric Vehicle Energy Taskforce has been formed at the request of Government to make suggestions to Government and Industry on 'how to ensure the GB energy system is ready for and able to facilitate and exploit the mass take up of electric vehicles?'

The Taskforce is chaired by Philip New, CEO Energy Systems Catapult, and is run by the LowCVP.

[www.lowcvp.org.uk/EVET](http://www.lowcvp.org.uk/EVET)