



Image courtesy of EV Clicks

- 15:00 **Welcome and introductions**  
Merlin Hyman, chief executive, Regen
- 15:15 **Introduction and Project Rapid update**  
Aaron Berry, deputy head, OLEV (energy and infrastructure)
- 15:45 **Lessons from street level EV charging projections**  
Joel Venn, head analyst, Regen
- 15:50 **Opportunities and challenges from ultra-rapid charging hubs - panel discussion**  
Tom Hurst, UK network development manager, Fastned  
Millie Pardoe, business development associate, Pivot Power  
Paul Jewell, DSO manager, Western Power Distribution  
Sarah Lane, investment manager, Zouk Capital
- 17:00 **Finish**

### Attendee interaction during the event

This is an interactive session, so please feel free to ask any questions using the Q&A function at the bottom of the screen





Office for Low Emission  
Vehicles

# Electric vehicle outlook

## Regen EV Forum 22 April



- Transition to EVs – 2035 Consultation
- Progress, support and regulation
- Project Rapid
- Budget announcement
- Next Steps

A vertical decorative bar on the left side of the slide. It features a dark background with numerous light trails in shades of red, orange, and yellow, creating a sense of motion and energy. The trails are most concentrated in the lower half and fan out towards the top.

## Consultation on the transition to zero emission vehicles

- Bringing forward the end to the sale of new petrol and diesel cars and vans from 2040...
- ...to 2035, or earlier if a faster transition appears feasible
- including hybrids for the first time.

Our proposals are directly based on CCC advice

## Independent Committee on Climate Change advice to UK Government

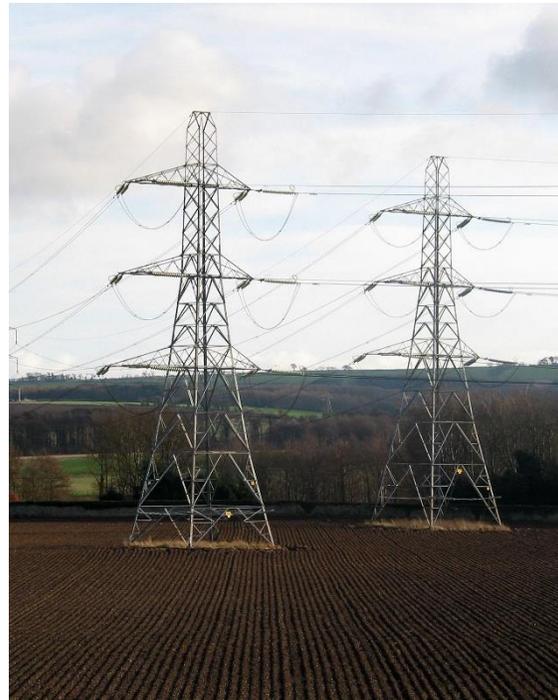
- Bring forward the ban on new conventional vehicle sales to 2035 or ideally 2030
- Only [new] battery electric or other zero-carbon vehicles will be permitted to be sold after this point



# Consultation questions

## We are interested in views on:

- The phase out date
- The definition of what should be phased out
- Barriers to achieving the ambitions set out in the consultation
- The impact of these ambitions on different sectors of industry and society
- What measures are required by Government and others to achieve the earlier phase out date?



# Consultation process

Written evidence is welcome. The deadline has been extended to 31 July, but input helpful as soon as possible: [communications@olev.gov.uk](mailto:communications@olev.gov.uk)

We are holding a series of bilateral and multilateral discussions with stakeholders on views and ideas.



# Progress on vehicles and infrastructure

Over 3% market share – cars in 2019

~1% market share vans

~3,000 ULEV taxis on UK streets

Over 24,000 public chargepoints, of which 2,400 rapid

Over 120,000 domestic chargepoints installed

Over 50 councils applied for funding to install on-street charging



## Increasing uptake of ULEVs



Plug-in Car Grant



[www.goultralow.com](http://www.goultralow.com)



Energy Savings Trust fleet reviews



Tax measures



Green number plates consultation



Government's own fleet commitment



## Supporting one of the best infrastructure networks in the world



Consultation: smart requirement for all chargepoints



Onstreet, workplace and residential grant schemes



Rapid charging



Consultation: new homes and car parks to have a chargepoint



Charging infrastructure investment fund (CIIF)



Credit/debit card payments

# Project Rapid

## AIMS

- To **give consumers the confidence to use electric vehicles** for longer journeys
- To set a vision for rapid charging to **help direct and catalyse investment** to build out the infrastructure required

## SCOPE

- **Rapid and high-powered** charge points (150 kW+)
- Charge points + associated electrical capacity
- Public locations **along the strategic road network**
- Demand from **cars and vans**

Current provision

What will demand be in the future?

Investment pipeline

Current market barriers

Role for government

## BUDGET 2020

DELIVERING ON OUR PROMISES TO  
THE BRITISH PEOPLE

# Budget 2020

## Reducing vehicle pollution

**2.110 Electric vehicle charging infrastructure investment and review** – The government will provide £500 million over the next five years for electric vehicle charging infrastructure. This will include a Rapid Charging Fund to help businesses with the costs of connecting high-powered charge points to the electricity grid, where those costs would prevent private sector investment. To target spending from this fund effectively, the Office for Low Emission Vehicles will complete a comprehensive review of electric vehicle charging infrastructure. This will build on the previous review announced in July 2019, extending its scope to cover the full Strategic Road Network and other strategic locations in cities and rural areas.

**2.111 Consumer incentives for the purchase of ultra-low emission vehicles** – The government is considering the long-term future of consumer incentives to support the transition to zero emission vehicles alongside the consultation on bringing forward the phase-out date for the sale of new petrol and diesel cars and vans from 2040. In the meantime, the government will provide £403 million for the Plug-in Car Grant, extending it to 2022-23. The government will also provide £129.5 million to extend the Plug-in Van Grant, Plug-in Taxi Grant, and Plug-in Motorcycle Grant to 2022-3. (35)

# 2020/21 support for infrastructure confirmed

## Electric Vehicle Homecharge Scheme (EVHS) - Extended to 2020/21

**£ 350** towards a home chargepoint

## On-street Residential (OSR) - £10m 2020/21

**£ 7,500** per chargepoint for local authorities

## Workplace Charging Scheme (WCS) - Extended 2020/21

**£ 350** per workplace socket



# Next steps

- 2035 consultation
- Comprehensive energy infrastructure review
- Transport Decarbonisation Plan
- Budget and Spending Review

## Decarbonising Transport Setting the Challenge



Thank you

**Aaron Berry**

Deputy Head, Office for Low Emission  
Vehicles (OLEV)

[Aaron.berry@olev.gov.uk](mailto:Aaron.berry@olev.gov.uk)



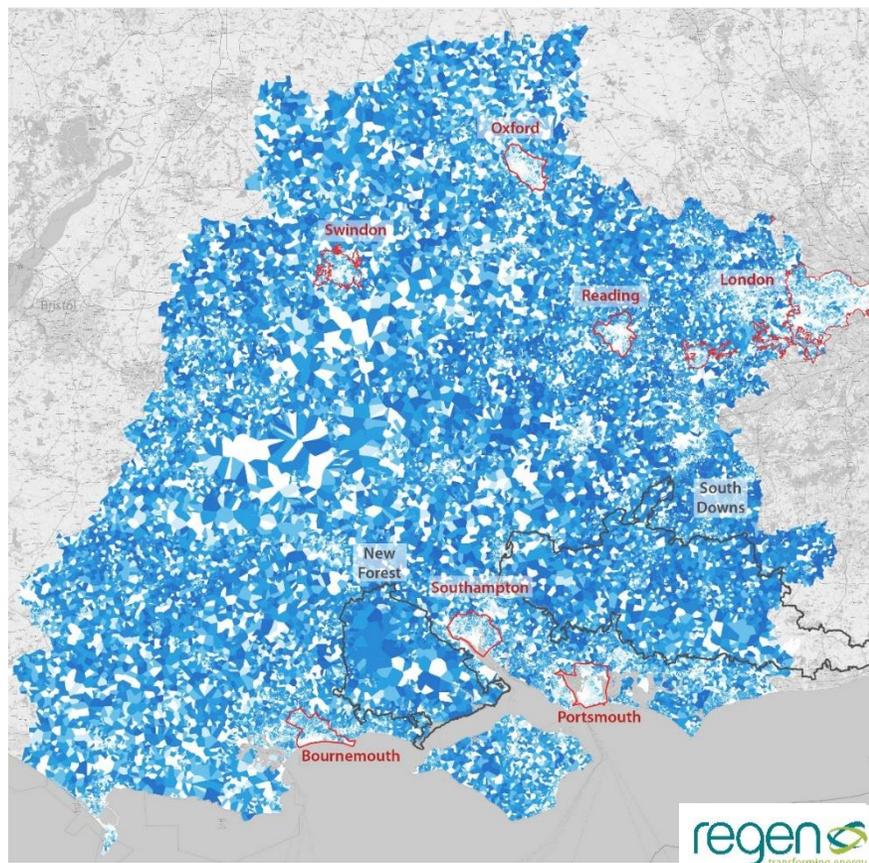
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# Street level EV charging projections

## Domestic off-street EV charging distribution\*

Off-street home charging distribution, by feeder in the SSEN Southern licence area by 2030 under a Two Degrees scenario.

Urban areas have lower off-street parking provision. Urban areas can be clearly identified on the map as the areas with the lowest density of off-street charger provision.

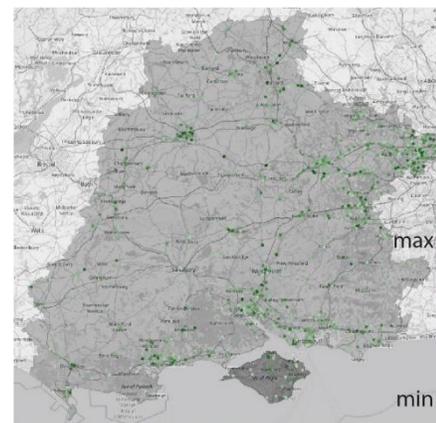
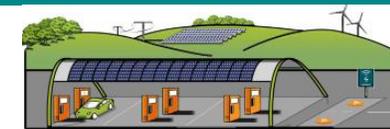


Off-street domestic

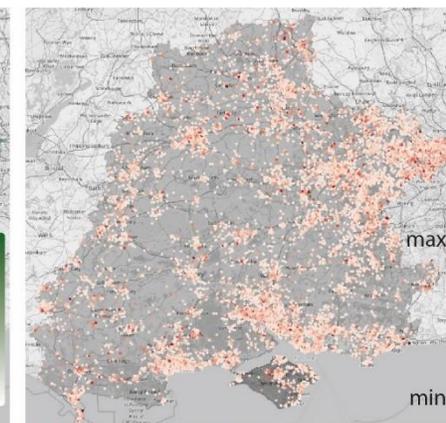
## Non-domestic EV charging distribution\*

Non-domestic EV charging distribution by individual secondary substation in 2050 in a Two Degrees scenario.

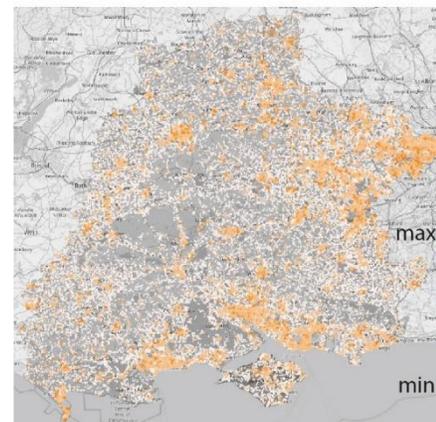
A wide range of high granularity spatial datasets were used for this study, including Ordnance Survey Addressbase data, DfT road traffic flow data, Census Output Area data, postcode statistical data, and individual property EPC data.



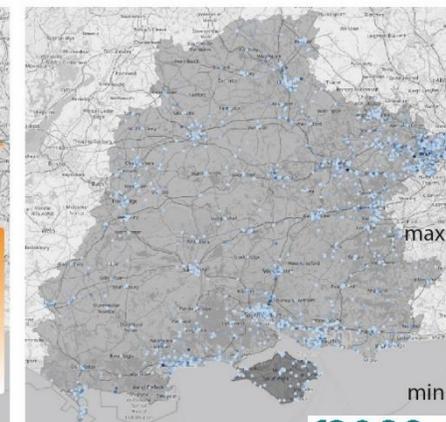
En-route local and national



Workplace and fleet/depot



On-street residential



Car parks

## Panel members



Aaron Berry  
OLEV



Millie Pardoe  
Pivot Power



Tom Hurst  
Fastned



Paul Jewell  
WPD



Sarah Lane  
Zouk

## Future Regen Events

### **Managing the energy system in a time of change – 28 April**

The webinar will feature Roisin Quinn, chief engineer at National Grid ESO and Claire Addison, head of regulation, Flexitricity. We will be discussing managing the control room during the Covid-19 crisis and look at the changing regulatory environment and its impact on business models.



### **Electricity Storage Network webinar – 3 June**

This webinar bridges the gap between the generation and storage worlds, connecting experts from across the whole energy system to consider how to integrate storage, find the best routes to market and create innovative new business models.



### **Solar Developer Forum – Early October – date TBC**

The next session of Regen's solar developer forum will examine the speed and scale of deployment of subsidy free solar and storage, and how we can address the constraints that impact that development.



## Thank you for joining us

If you would like to know more about Regen, the events we run and the work we do, please contact Rachel Hayes ([rhayes@regen.co.uk](mailto:rhayes@regen.co.uk)) or Hannah Stanley ([hstanley@regen.co.uk](mailto:hstanley@regen.co.uk))



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