

Avoiding A Legal Shortcut – EV Infrastructure Demand Update

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Brief updates

Q1 2024 EV infrastructure update

Current barriers

Public Charge Point Regulations 2023

Workplace Charging Scheme

Industry recommendations & outlook

UK power grid Demand Surge –Q1 update

- 47% increase in the total number of charging devices since March 2023 (ZapMap)
- insufficient access to reliable charging is one of the major barriers to drivers transitioning to EV (56% of What Car? Readers survey)
- Government missed its end of year, 2023 goal of installing at least six rapid or ultra-rapid charging stations at every motorway service station in England by over 60%
- Only 46 of the 119 motorway services it reviewed on Zapmap have the target number of EV above 50kW (Zapmap)

EV charging infrastructure – barriers

- £70 million Chargepoint pilot scheme at motorway services appears to be misguided
 - lack of physical land
 - not well connected national grid motorway connections
- Use of A-roads corridors to motorways

EV charging infrastructure –solutions

- Purchasing suitable council land by removing the red tape blocking the sale of these sites
- robust charger council targets
- fully funded installation including maintenance

Public Charge Point Regulations 2023

- The new rules, outlined in the Public Charge Point Regulations 2023, aim to improve the charging experience for electric vehicle (EV) drivers.

4 key areas :

- 1. locate the right public charge point to fit their needs
- 2. ease of payment
- 3. good working order
- 4. price comparison

Workplace Charging Scheme

- new grant now available for state-funded schools and education institutions
- provides up to 75% of the cost to buy and install chargepoints, up to £2,500 per socket, up from the previous £350.

Funding channels & infrastructure delivery

- The Local Electric Vehicle Infrastructure (LEVI) Fund
- On-Street Residential Charging Scheme (ORCS)

Not fit for purpose when it comes to most local authorities.

Although councils are given grants to build chargers, they aren't given any advice on the best way to spend them.

VAT disparity "Pavement tax"

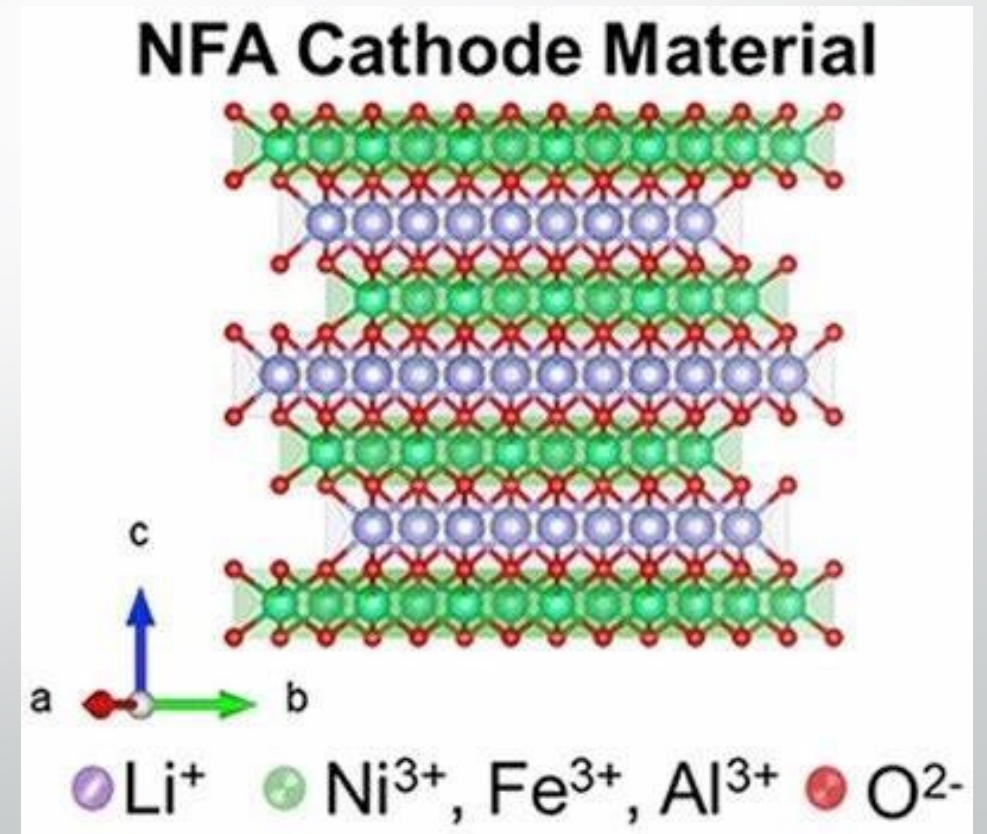
- Car manufacturer Vauxhall released research in August 2023 :
 - 40% of UK households do not have a driveway or access to off-street parking
- Domestic equipment such as heat pumps and roof-mounted solar, as well as retro fitted battery energy storage systems (BESS), VAT exempt from 1st February 2024

Industry key recommendations

- tackling the disparity in upfront costs between electric and petrol and diesel vehicles by introducing targeted grants
- review outdated and disproportionate planning regulations
- right to carry out street works using a permit rather than apply for a licence under section 50 of the New Roads and Street Works Act 1991
- Workplace Charging Scheme - providing up to 75% of the cost to buy and install chargepoints, up to £2,500 per socket, up from the previous £350. Available for state-funded schools and education institutions

EV battery recycling

- Continued investment in second life cycle (possibly even third life cycle) as well battery recycling
- Government backed Nissan partnership with Altilium, a UK-based cleantech group, to help improve the sustainability of EV batteries manufactured in the UK



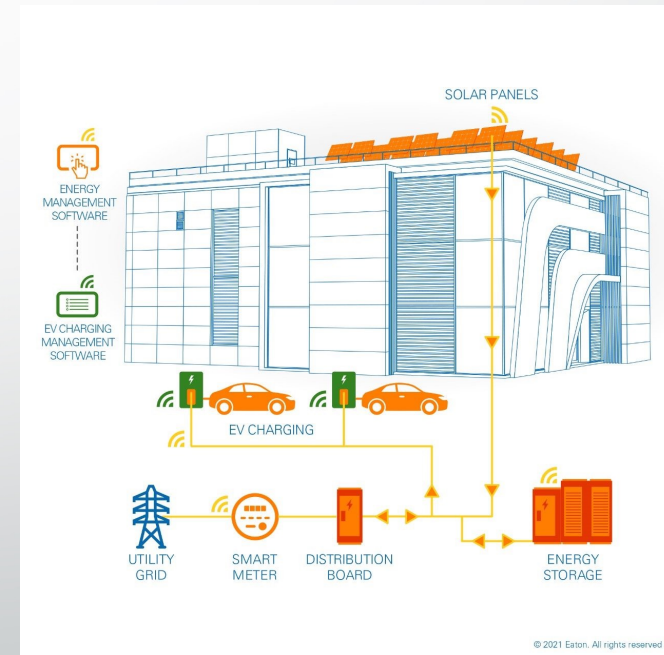
Battery smelting & leaching

- This follows last year's news that Nissan is using new and retired Nissan EV batteries to provide backup power to Ajax Football team the Amsterdam Arena entertainment venue.
- Technological advances in smelting and leaching will be finessed in coming years



Energy management ecosystem will become a reality

- Innovation and investment in battery storage will pick up pace
- Battery energy storage has become an increasingly important feature of the energy ecosystem for businesses with EV fleets, with many looking to support grids with flexibility services.



Outlook for 2024

- Environment and Climate Change Committee Feb 2024 recommended government to update its EV strategy with the technology's adoption falling behind in the race to net zero
- Local on-street residential charging must remain a top priority for both the public and private sector to prevent regional disparities in
- it remains to be seen how this translates to tangible improvements on the ground in 2024, given other distractions and priorities, not least of them being a general election

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