

National EV Insights & Support

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Reducing Emissions From Transport



Helping clients to assess, evaluate, implement and deliver low emission vehicle and associated infrastructure strategies

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Transport



Energy
Infrastructure



Knowledge &
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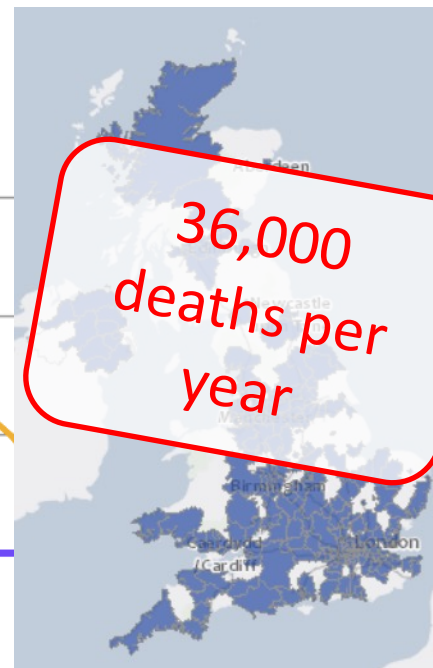
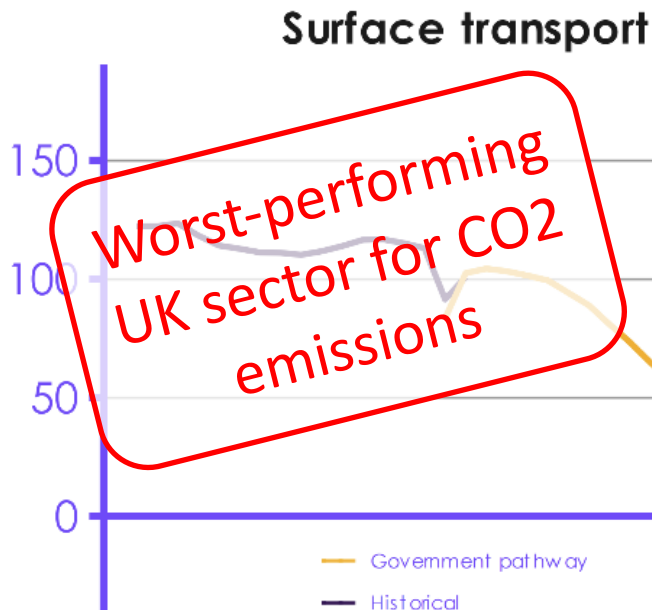
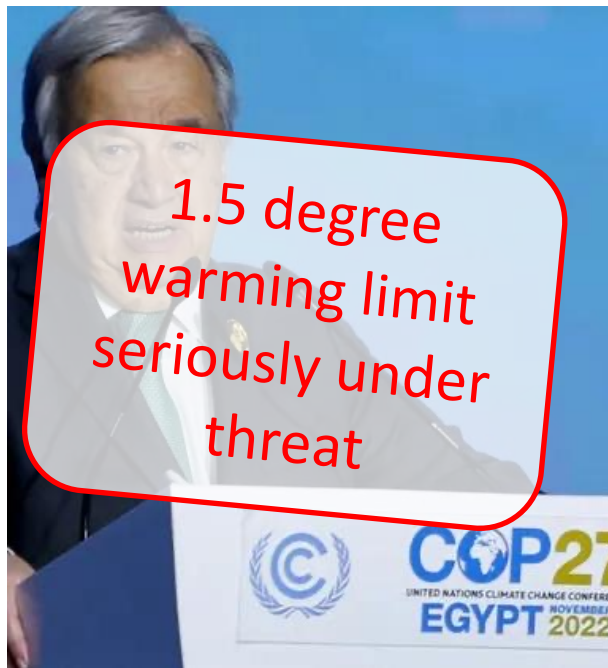
National EV Insight & Support



Importance of local electric vehicle charging infrastructure networks

Why do local authorities need to act?

Framed by global, national and local challenges



Net zero becoming increasingly partisan

Conservative MP attacks Rishi Sunak's 'unfair' 2030 petrol and diesel car ban

Labour's Sadiq Khan and Tory Chris Skidmore team up to fight 'climate delayers'

SNP to review net zero target

Britain delays ban on new petrol and diesel cars to 2035, prime minister says

...the net zero
...ver

'We're not going bankrupting Britons,' says Braverman as car makers hit out at government

Labour's Green Agenda Will Offer "Line" With Tories

New roads scrapped in Wales to hit net-zero, putting pressure on England to follow

Scottish and Welsh climate ministers demand UK net zero summit

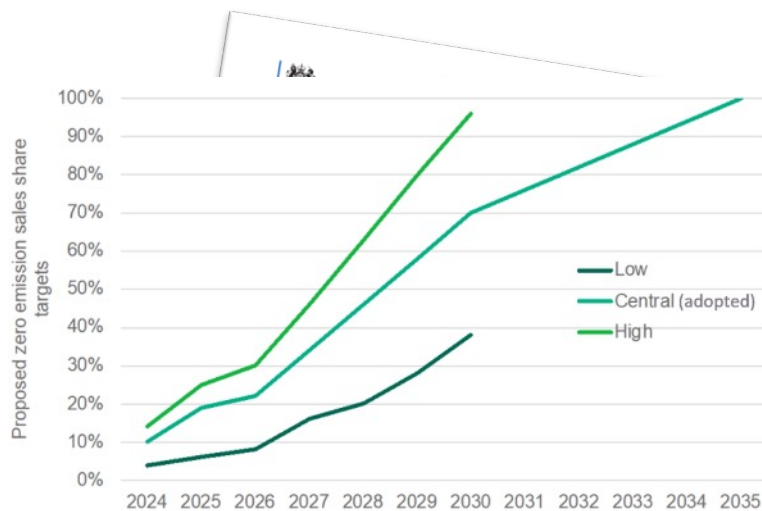
EV sales remain strong - 20% increase 2022-23

JANUARY

	2023	2022	% change	Mkt share -23	Mkt share -22
Diesel	5,280	6,008	-12.1%	4.0%	5.2%
Petrol	58,973	51,468	14.6%	44.7%	44.7%
MHEV diesel	5,119	5,732	-10.7%	3.9%	5.0%
MHEV petrol	17,243	14,907	15.7%	13.1%	13.0%
BEV	17,294	14,433	19.8%	13.1%	12.5%
PHEV	9,109	9,047	0.7%	6.9%	7.9%
HEV	18,976	13,492	40.6%	14.4%	11.7%
TOTAL	131,994	115,087	14.7%		

ZEV Mandate

- The UK has now finalised its proposals for a ZEV Mandate
- This will ensure that 22% of new cars registered in 2024 must be zero-emission vehicles
- Rising to 80% in 2030
- All newly registered cars and light vans will need to be zero-emission vehicles by 2035
- This is the UK Government's single biggest carbon cutting policy measure



Year	2024	2025	2026	2027	2028	2029
Target	22%	28%	33%	38%	52%	66%
Year	2030	2031	2032	2033	2034	2035
Target	80%	84%*	88%*	92%*	96%*	100%*

*Target will be set out in future legislation later in the decade.

But frustration with EV Infrastructure is rising

NEWS UK Automotive calls for EV chargepoint mandate governed by independent regulator to level up network

Home

Scotland

Alba

UK will fail to deliver the electric vehicle infrastructure needed by 2030, with four in five EV drivers calling on government to “do more”

Wednesday 5th October 2022

g points: Why

Belfast Telegraph [News](#) [Opinion](#) [Business](#) [Sport](#) [Life](#) [Entertainment](#) [Travel](#) [Sunday Life](#)

‘Concerning’ that Northern Ireland only part of UK where electric vehicle chargers have decreased

🕒 2 November

the rising use of EVs might outpace the installation of chargers

How do we address this?

- We want to
 - Start to move the needle on climate change, air quality and pollution
 - Support ongoing transport decarbonisation
 - Avoid customer frustration
- Enter EV Infrastructure!
 - Everyone can find and access EVI
 - Effortless on- and off-street charging
 - Fair pricing, inclusive design
 - Market-led rollout
 - Integration into the smart energy system
 - Continued innovation



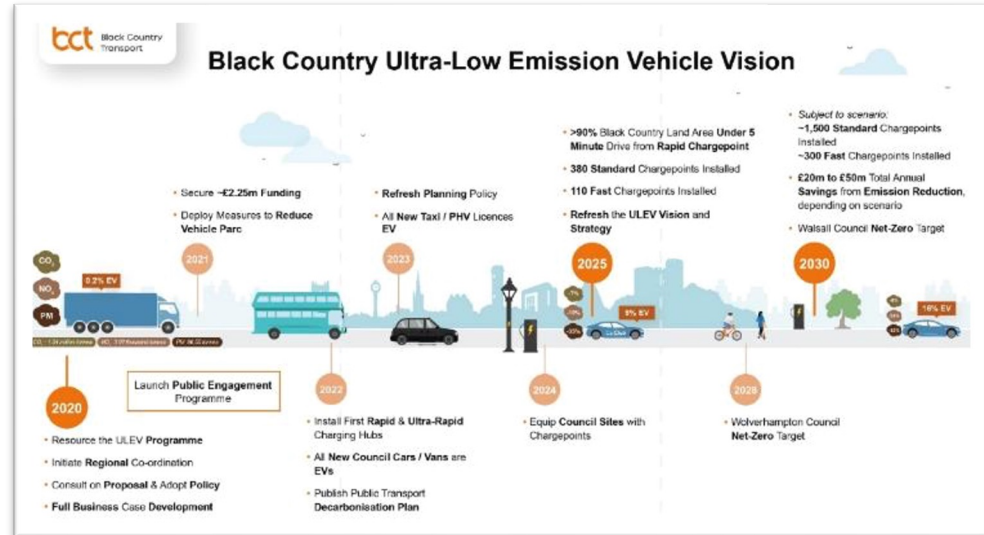
HM Government

Taking charge: the electric vehicle infrastructure strategy



Local authorities have a vital role

- Local authorities are gatekeepers to much of the land that is ideal for EV charging
- Local authorities best place to understand local EV charging needs
- Providing EV charging is a new and significant undertaking
- Producing local EV charging strategies can determine ideal outcomes and provide the basis to take action



Where do you begin?

- Some local authorities have had lots of success installing EV charging infrastructure.
- Others have barely even begun.
- As a local authority that is yet to take its first step towards growing a local EV charging network, where do you begin?
- Do you have access to data insights, best practice and reference materials?

Constituency EV Map

Check your local area below!

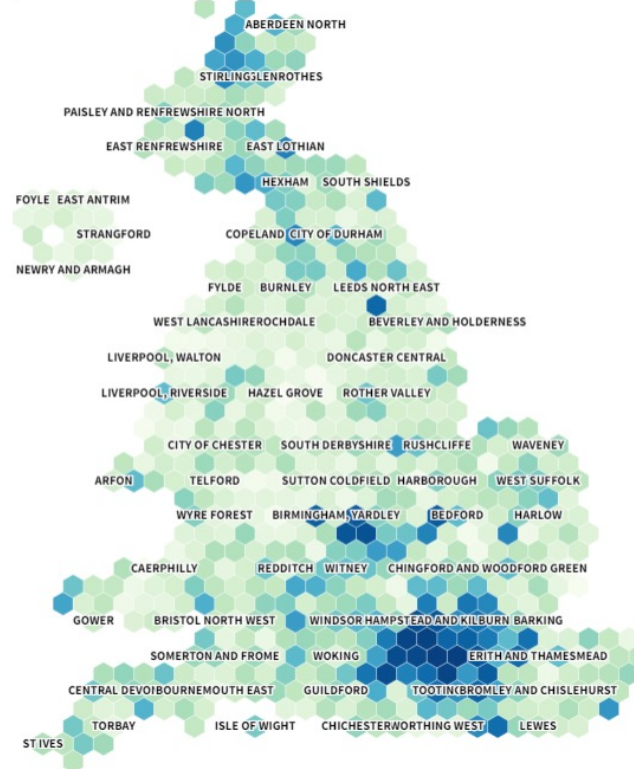
Rapid/Ultra Rapid: 25kW and above **Slow/Fast:** Below 25kW

On-Street: Public charging for on-street parking **Off-Street:** Public charging in a car park

Comparison metric: Chargers

Range of values 2,176.4 672.96 1,113

Q Search...





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National EV Insight & Support



National EV Insight & Support (NEVIS)

What it is and how can it support local authorities to develop local EV charging infrastructure networks?

Building strategies of all types is underpinned by common analysis, information and insight

- To address this, Cenex offers its National EV Insight and Support (**NEVIS**) service
- Supports strategy development and delivery
- Supplements Cenex's existing consultancy
 - Free service for all local authorities in England, Scotland, Wales and Northern Ireland
 - Access can be arranged for other organisations at a small fee



Insights Toolkit



Current Status

This section of the Insights Toolkit includes information on the vehicle parc, emissions from transport and the current state of the Electric Vehicle Charging Infrastructure (EVI) in the UK.



Future Projections

This section of the Insights Toolkit includes information on the projected change in the vehicle parc and the projected growth in EVI that will be required to meet the demand of electric vehicles (EV).



Potential Benefits

This section of the Insights Toolkit includes information on the potential benefits that can be realised by transitioning to electric vehicles (EV).

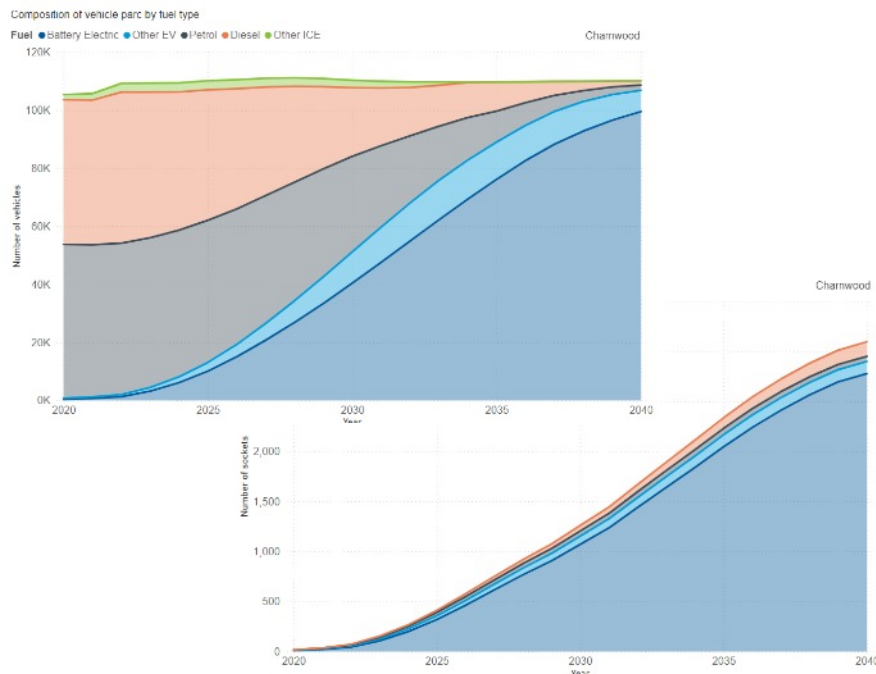


Implementation Planning

This section of the Insights Toolkit includes information on the potential benefits that can be realised by transitioning to electric vehicles (EV).

Local insights, at local authority level

- Current Status
 - Vehicles, EVs, chargepoints, emissions, early adopters
- Projections
 - EV uptake
 - Required chargepoints
- Benefits
 - CO₂ impact
 - Air quality impacts
 - Mitigated damage costs
- Implementation
 - Outline business case inputs



Mapping and spatial insights



Residential Charging Index

Cenex analysis to help identify locations where on-street residential charging is likely to be required in the short term



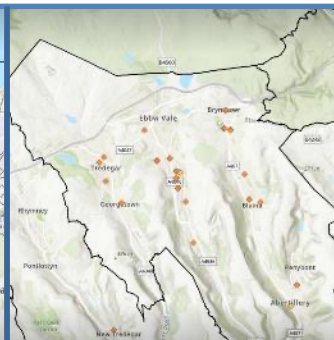
Motability Data

Approximate location of Motability customers, who may require accessible charging infrastructure, as defined by PAS1899



Co-Charger Data

Approximate location of Co-Charger customers, who have made their private EV chargepoints available for public use



Existing EV Charging Locations

Data from ZapMap and the National Chargepoint Registry shows locations of existing EV charging infrastructure locations

Knowledge Repository

Knowledge Repository

Equipping and resourcing Local Authorities to deliver EV Infrastructure (EVI).



What would you like to search for?

- ✓ Build long-term capacity and capability in Local Authorities;
- ✓ Upskill organisations, especially those with limited experience in this arena;
- ✓ Embed best practice to enable independent actions and reduce the long-term reliance on the external organisations;
- ✓ Provide practical recommendations, including templates; and
- ✓ Information on where to go to find out more

Divided into steps to meet needs of organisations at different stages


- 1 Just Starting Out
- 2 Decision to Act
- 3 Developing your Strategy
- 4 Delivery Planning
- 5 Procurement
- 6 Mobilisation & Installation
- 7 Operations



Step through the stages of your EV journey

Explore guidance and key information for each stage of the EVI delivery process.

A growing resource of articles, guidance and videos

**NEVIS**
DELIVERED BY CENEX

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8 LEVI Support Program

Roadshow 1

Contents

Roadshow Aim

Register for the next event

Roadshow 1 Details


What is wanted from Local EVI? An EV Driver's Perspective

A focus on: Lamppost charging

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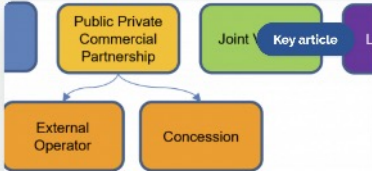
Procurement

Advice, guidance, and templates for procuring EV infrastructure and associated services



Key article

Intro to EVI Procurement



Public Private Commercial Partnership

Joint

Key article

External Operator

Concession

Commercial Arrangements

Strategy Checklist:

strategy:

document

EVI, coordinated by a strategy – political, economic, social,

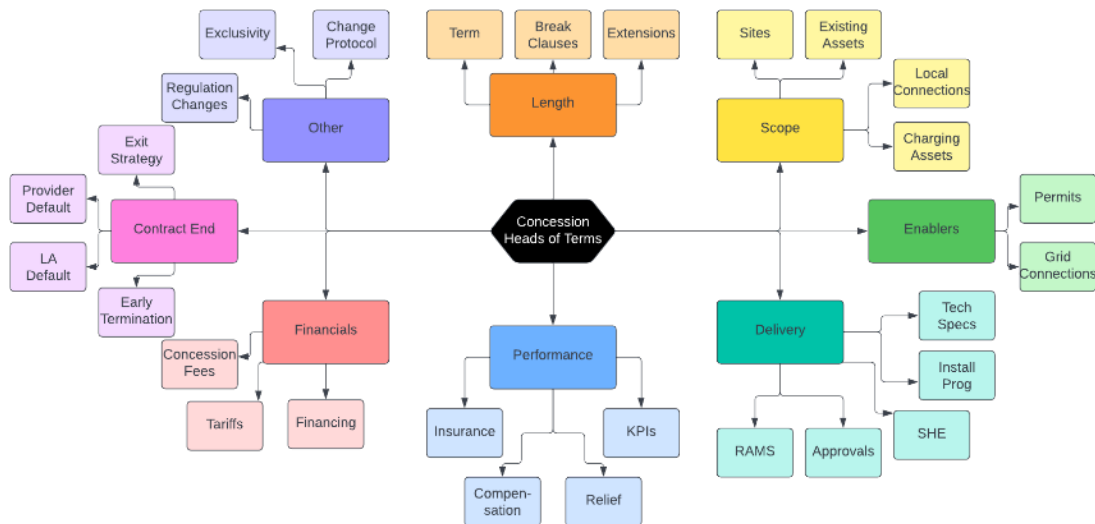
barc, road transport emission, air quality, EV uptake to-date

and the need for EVI – typically public EVI is the primary

ten to householders using pavement channels, chargepoint

Procurement document templates

Heads of Terms



Technical Schedules



Technical Schedules

Version Management			
Authors	Rev. Version	Date	Changes
Procurement Forum	1.1.0	24-Aug-23	First Public Version

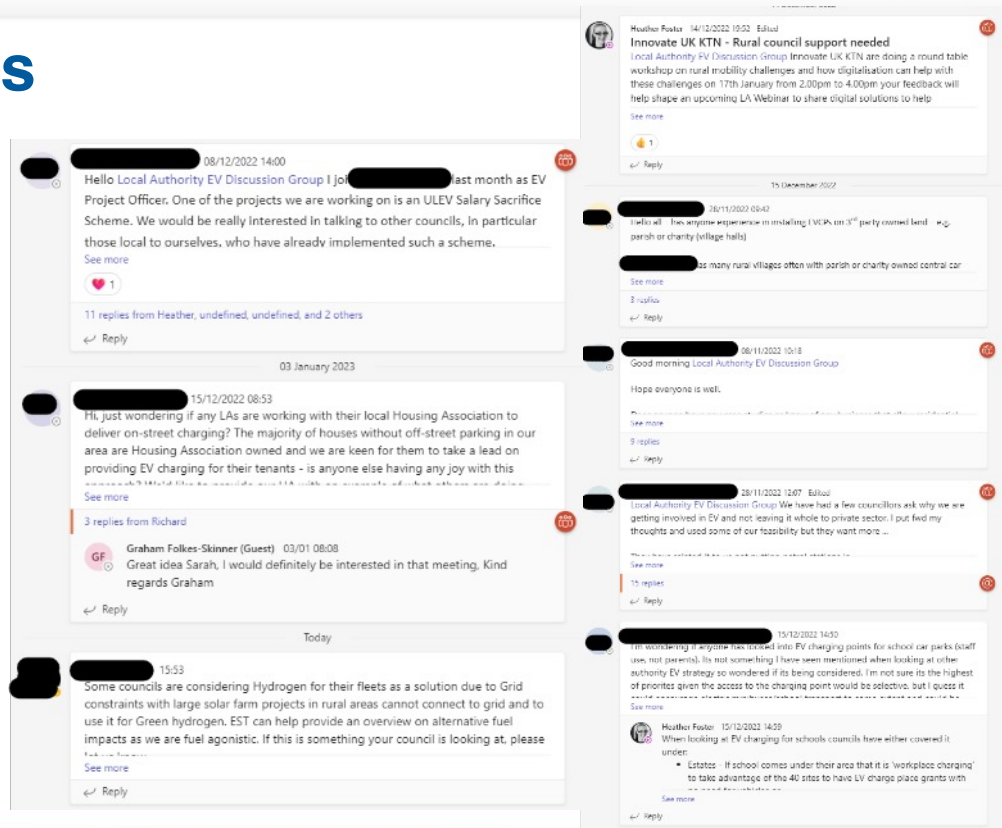
Technical Schedules – refer to instructions for use, do not copy and paste in full

1

KPI Schedules available soon!

Networking & roadshows

- Delivered in coordination with Energy Saving Trust's Local Government Support Programme team
- Connects local government officers responsible for EV charging infrastructure
- Questions asked and usually answered by officers! Cenex/EST fill the gaps.
- Also running roadshows to provide further networking and development opportunities for local government officers
- **Next one in Port Talbot - 23rd November!**



Innovate UK KTN - Rural council support needed
Local Authority EV Discussion Group
Innovate UK KTN are doing a round table workshop on rural mobility challenges and how digitalisation can help with these challenges on 17th January from 2:00pm to 4:00pm your feedback will help shape an upcoming LA Webinar to share digital solutions to help

See more

1

Reply

15 December 2022

08/12/2022 14:00

Hello Local Authority EV Discussion Group I joined last month as EV Project Officer. One of the projects we are working on is an ULEV Salary Sacrifice Scheme. We would be really interested in talking to other councils, in particular those local to ourselves, who have already implemented such a scheme.

See more

1

11 replies from Heather, undefined, undefined, and 2 others

Reply

03 January 2023

15/12/2022 08:53

Hi, just wondering if any LAs are working with their local Housing Association to deliver on-street charging? The majority of houses without off-street parking in our area are Housing Association owned and we are keen for them to take a lead on providing EV charging for their tenants - is anyone else having any joy with this?

See more

3 replies from Richard

GF Graham Folkes-Skinner (Guest) 03/01 08:08
Great idea Sarah, I would definitely be interested in that meeting. Kind regards Graham

Reply

Today

15/53

Some councils are considering Hydrogen for their fleets as a solution due to Grid constraints with large solar farm projects in rural areas cannot connect to grid and to use it for Green hydrogen. EST can help provide an overview on alternative fuel impacts as we are fuel agonistic. If this is something your council is looking at, please

See more

Reply

15/12/2022 12:07 Edited

Local Authority EV Discussion Group We have had a few councillors ask why we are getting involved in EV and not leaving it whole to private sector. I put fwd my thoughts and used some of our feasibility but they want more ...

See more

15 replies

Reply

15/12/2022 14:00

I'm wondering if anyone has looked into EV charging points for school car parks (staff use, not parents). It's not something I have seen mentioned when looking at other authority EV strategy so wondered if it's being considered. I'm not sure it's the highest of priorities given the access to the charging point would be selective, but I guess it

See more

Heather Foster 15/12/2022 14:59
When looking at EV charging for schools councils have either covered it under:

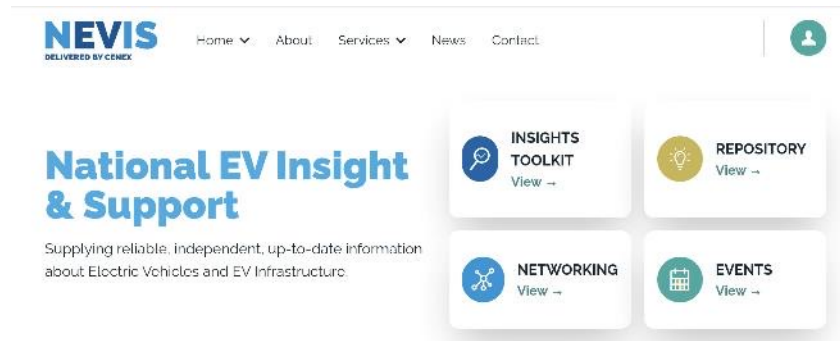
- Estates - If school comes under their area that is 'workplace charging' to take advantage of the 40 sites to have EV charge place grants with

See more

Reply

Summary

- The NEVIS Platform provides data insights, reference materials and template procurement documents for local authorities and other organisations
- If you work for a local authority in England, Scotland, Wales or Northern Ireland, you already have free access to this platform!
 - You can register to use the NEVIS platform by visiting:
nevis.cenex.co.uk
- We can also provide access to other organisations for a small fee



Thank you for listening

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