National EV Insights & Support

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Reducing Emissions From Transport

- Alternative Fuels for Freight
- Connected and Autonomous Vehicles
- Supporting Bids and Proposals
- Vehicle Trial Support
- Developing Low Emission Strategies for Cities
- Fleet Assessments
- Locating Suitable Infrastructure Sites
- Smart Charging and Vehicle-to-Grid
- Training Courses

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

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Importance of local electric vehicle charging infrastructure networks

Why do local authorities need to act?
1.5 degree warming limit seriously under threat

Worst-performing UK sector for CO2 emissions

36,000 deaths per year
Net zero becoming increasingly partisan

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

Labour vow to reinstate 2030 ban

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

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

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**Proposed zero emission sales share targets**

<table>
<thead>
<tr>
<th>Year</th>
<th>2024</th>
<th>2025</th>
<th>2026</th>
<th>2027</th>
<th>2028</th>
<th>2029</th>
<th>2030</th>
<th>2031</th>
<th>2032</th>
<th>2033</th>
<th>2034</th>
<th>2035</th>
</tr>
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<tbody>
<tr>
<td>Target</td>
<td>22%</td>
<td>28%</td>
<td>33%</td>
<td>38%</td>
<td>52%</td>
<td>66%</td>
<td>80%</td>
<td>84%*</td>
<td>88%*</td>
<td>92%*</td>
<td>96%*</td>
<td>100%*</td>
</tr>
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</table>

*Target will be set out in future legislation later in the decade.
But frustration with EV Infrastructure is rising

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

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

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

Energy prices will be changing from November across England and 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
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?
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**
  - CO$_2$ 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

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

- 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

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

Intro to EVI Procurement

Commercial Arrangements
Procurement document templates

Heads of Terms

Technical Schedules

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!
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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