

Freight In The City Webinar

Long Haul Decarbonisation – Electric HGVs

19th May 2022

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Technical & Programme Director



**Zemo
Partnership**
Accelerating Transport to Zero Emissions

Welcome to Zemo Partnership

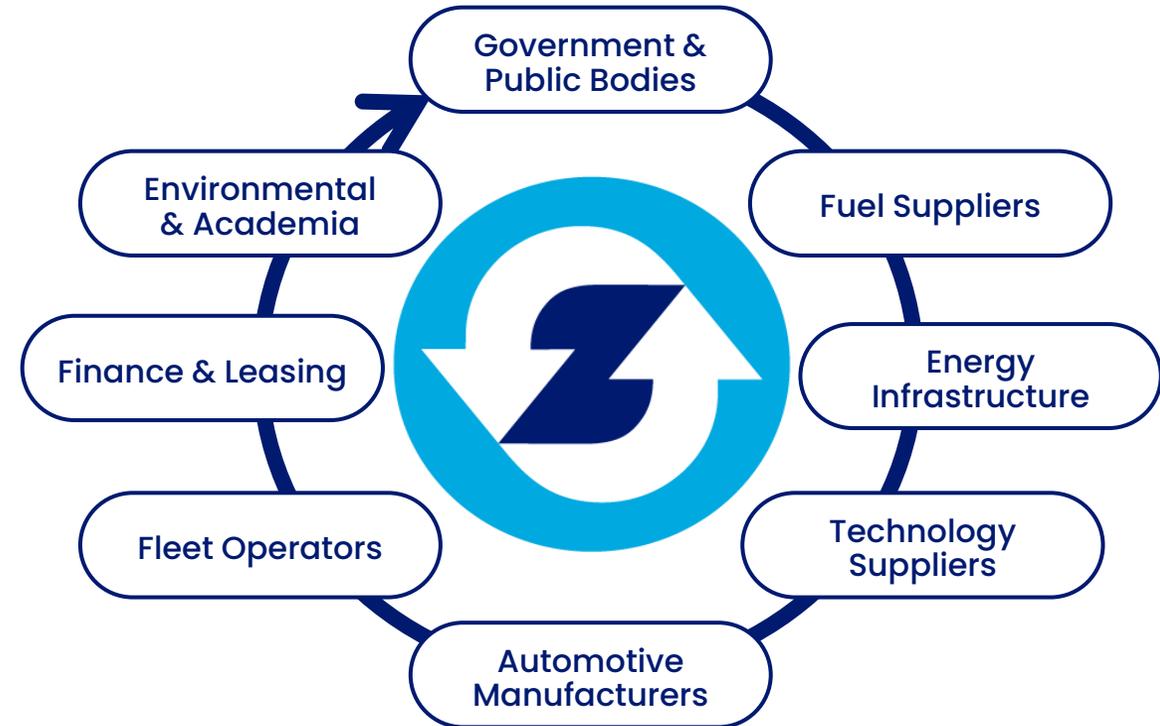
Accelerating transport to zero emissions



Previously LowCVP (2003–2021).

An independent, non-profit partnership that brings together government, industry and a wide range of expert stakeholders in the field of zero-emission mobility.

A unique cross sector collaboration of 240+ organisations focused on the decarbonisation of road transport.

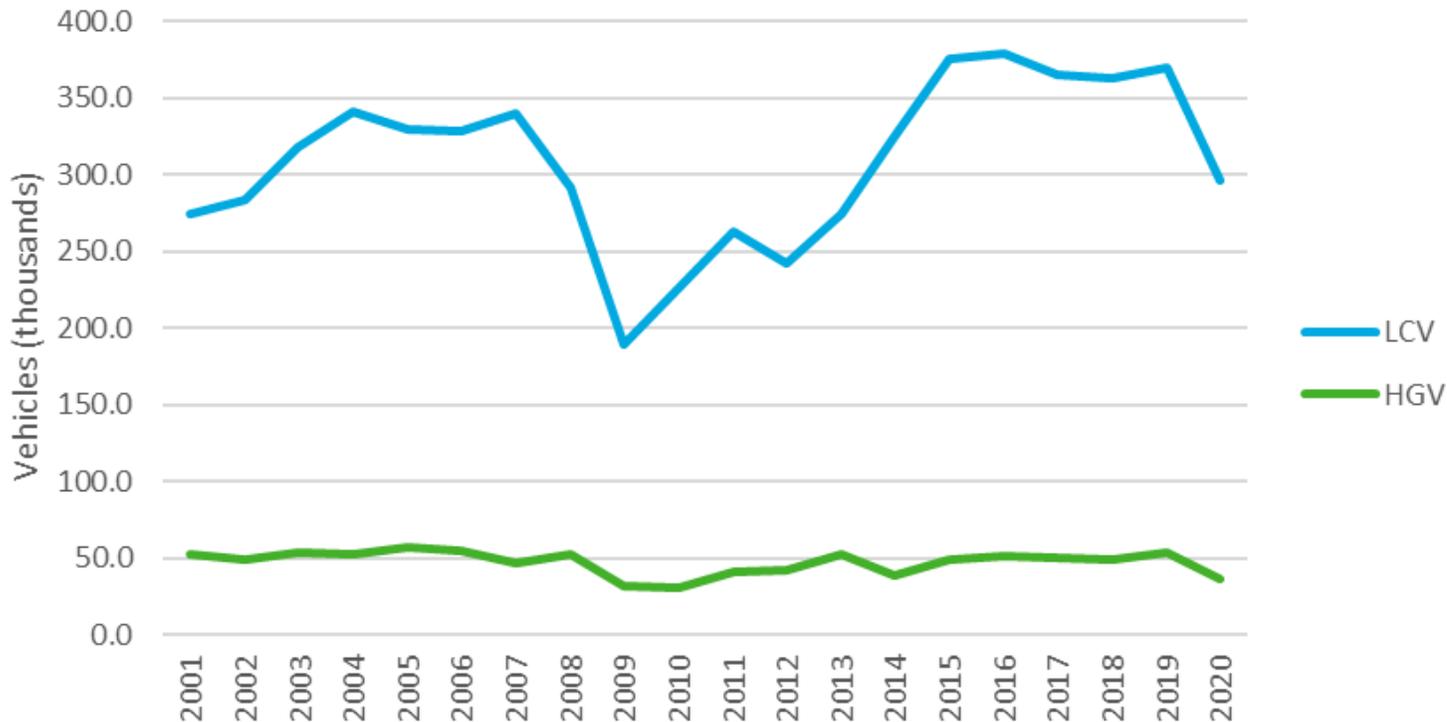


Where are we?

Commercial vehicle registrations



New Vehicle Registrations (DfT Stats)



(Data source: DfT, SMMT, Zemo Partnership analysis)

- **Recent years**
 - Impact of Covid-19 in 2020
 - Strong recovery in 2021
 - Supply chain challenges in 2022
- **Increasing number of miles driven**
- **UK domestic transport emissions (2019)**
 - 16% light commercial
 - 16% heavy duty

Large commercial vehicles

Zero emission today

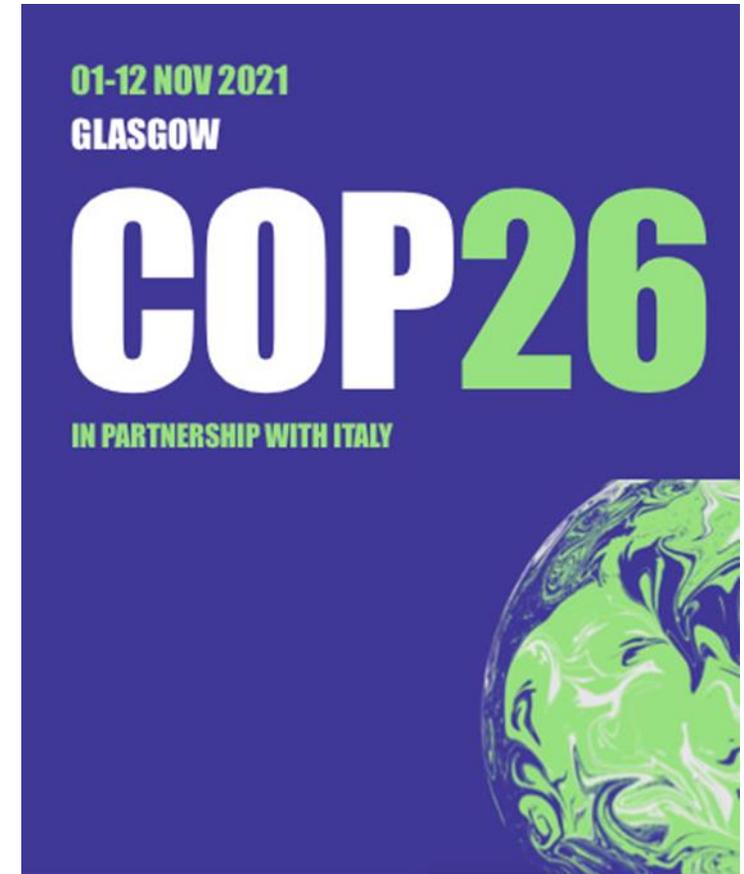
- 0.3% of new HGV registrations classified as ultra low emission in 2021
 - <0.1% in 2020
- BEV HGV market starting to emerge
 - Traditional OEMs
 - New entrants
- Bigger challenge to electrify
 - Mass & use cycle
 - 44t HGV, 400mile range = ~1MWh, ~5t battery



Large commercial vehicles

Non-zero emission phase out

- Phase out dates announced at COP26 for the sale of new, non-zero emission HGVs
 - 2035 for new vehicles of 26 tonnes & under
 - 2040 for new vehicles greater than 26 tonnes
- From 2040, all new HGVs sold in the UK must be zero emission at the tailpipe
- Applies to N2 & N3 category vehicles
- Not included/addressed elsewhere:
 - Bus & coach, off road vehicles, special purpose vehicles, agricultural equipment, NRMM, vehicles exempt from type approval



Large commercial vehicles

Incentives & support

- **Plug-In Truck Grant (N3)**
 - Minimum zero emission range of 60 miles
 - 20% of purchase price
 - Up to a limit of £25,000
- **Limited number of grants available per year**
 - 100 grants at £25,000 (5 per organisation)
 - Then 250 grants at £16,000 (10 per organisation)
 - Thereafter £5,000
 - Maximum of 1000 grants in total per organisation per year
- **Grant availability extended to 2024-2025**



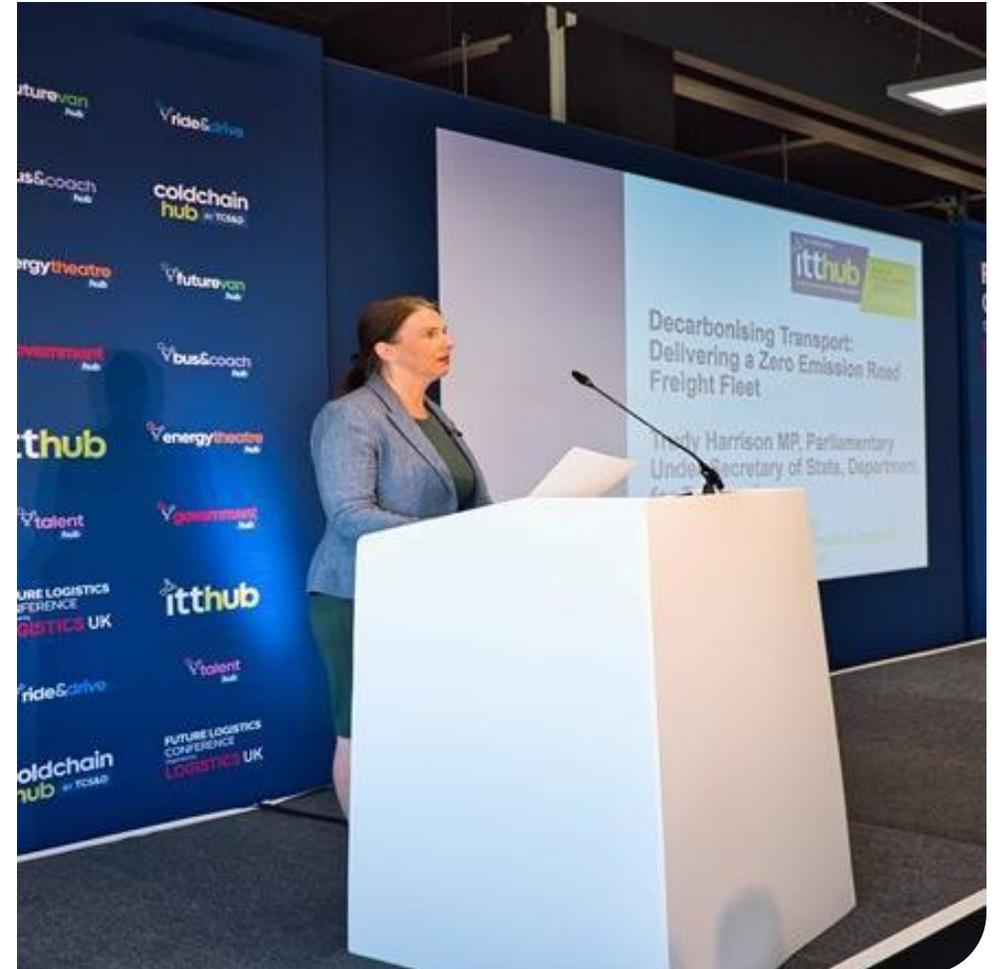
(Data source: DfT, Volvo)

Large commercial vehicles

Zero Emission Road Freight (ZERF)



- **ZERF announcement (12th May '22)**
 - £200m over 3 years
 - Large scale demonstration of zero emission HGVs & associated infrastructure
 - Competition timing to be announced
 - Summer is the expectation
 - BEV & hydrogen fuel cell focus initially
- **Follow on from the £20m trials that took place last year**



(Data source: DfT, Logistics UK)

Large commercial vehicles

Zero Emission Road Freight (ZERF)



- **Call for evidence also announced**
 - Exemptions to the 2035 phase out date for new non-zero emission vehicles in the <26t category
 - Such vehicles may need until 2040 to complete the transition
 - Examples quoted include:
 - Carry heavy or abnormal loads
 - Have additional power demands
 - Operate in specialist or remote areas
 - Closes 22nd Jul '22

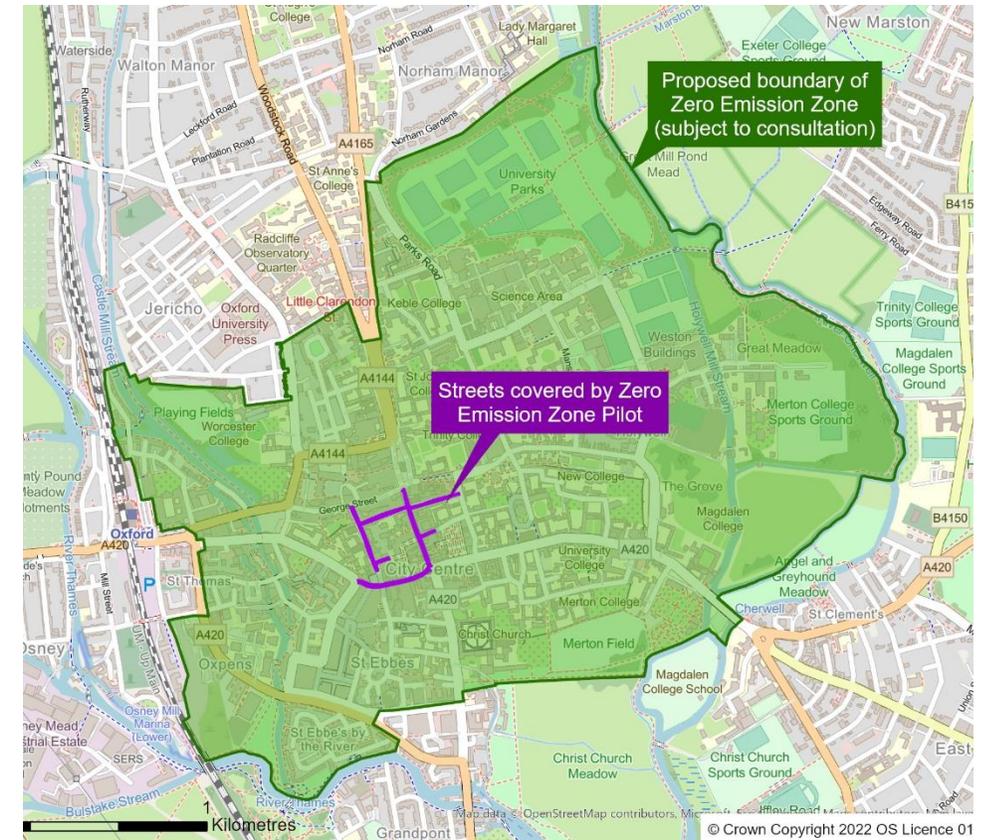


Large commercial vehicles

Local authority action



- Oxford is the first city in Britain to implement a zero emission zone
 - Pilot launched in Feb '22
 - Initially a small number of streets in the city centre
 - Daily charge per vehicle
- Zero emission vehicles are exempt from charge
- Ultra low emission vehicles are subject to a reduced charge compared to Euro 6 vehicles



(Data source: Oxfordshire County Council)



Zemo Partnership

Accelerating Transport to Zero Emissions

Thank you

Any questions? Please get in touch

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