

LowCVP / TfL workshop Increasing the Market for Low Emission Commercial Vehicle Technology

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Connect Collaborate Influence

Objectives for workshop

- 1. Bring the stakeholders and issues together
- 2. Outline the problem
- 3. Highlight previous, current and planned activity
- 4. Discuss the detailed projects and evidence needed
- 5. Listen to the industry needs
- 6. Collaborate between the support initiatives
- 7. Identify the Gaps
- 8. Define how we proceed

Increase the market for low emission commercial vehicle technology



The challenges	and some steps we have t	taken
Air Quality –	PM and NOX emissions Anti-diesel lobby, Criticism of Euro emission standard Clean Air Zones	BURO VI (HGV) ds CVIF SCHEME
Climate change –	Carbon reduction, Methane emissions Company CSR reporting	GAS TRUCKS/ BIOFUELS
Financial –	Saving costs Short payback Incentives/support grants	ROAD GAS IUG IN FUEL DUTY N FIXED TO NT 2024

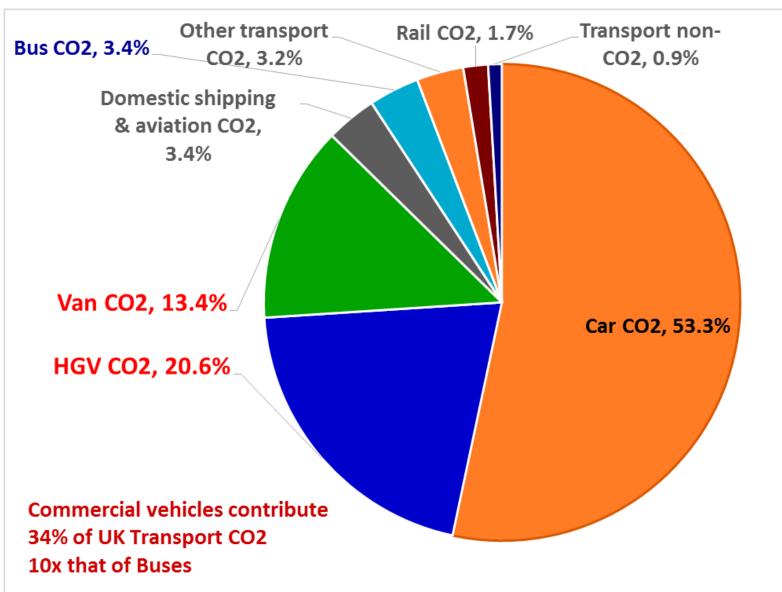
Operational –

Licensed Drivers Fuel station availability Payload impacts



Carbon Vehicle Partnership

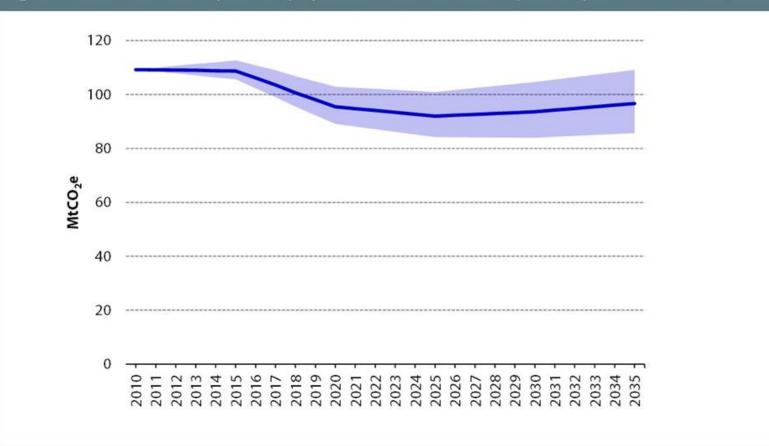
Contribution of commercial vehicles





CCC projections Nov 2015

Figure 5.7: UK surface transport CO₂, projections under current and planned policies (2010-2035)



Source: DfT projections for CCC (2015); DECC interim projections (October 2015); CCC analysis. **Notes:** Road and rail emissions projections were provided by DfT in October 2015. Other surface transport emissions come from DECC interim projections provided in October 2015. The range is estimated by CCC by scaling the uncertainty in emissions due to GDP and fuel prices taken from DfT's Road Traffic Forecasts 2015. This does not include uncertainty over the extent to which policies are successful.

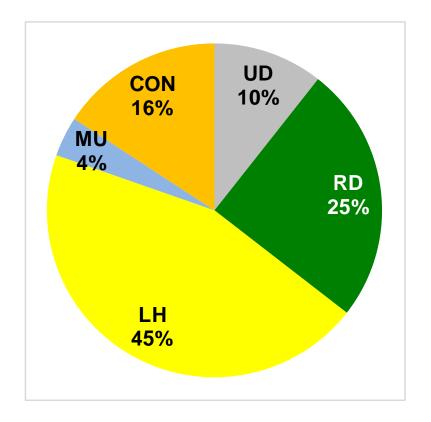


History LowCVP 2007 on

- LowCVP working in this area since 2007
- Presented reports and proposals to DfT in 2010
- 2011, LowCVP report on recommendations to accelerate the market for LC HGV
- 2011 Ministerial HGV task force called
- 2012 OLEV/TSB (Innovate) Low Carbon Truck Trial announced
- 2012 LowCVP CVWG disbands to focus on Task force
- 2012 LowCVP/TKTN/SMMT report into barriers and opportunities
- 2013 -14 LowCVP members develop HGV Accreditation process
- 2014/15 LowCVP/DfT Transport energy task force
- 2015 Fuel and infrastructure roadmaps
- 2015 LowCVP produce low Emission Van Guide



2012 Study showed 70% carbon from long haul and regional operation



Ranking of duty cycles by CO₂ emissions share:

- 1. Long haul (44-46 %)
- 2. Regional Delivery (24-25 %)
- 3. Construction (15-16 %)
- 4. Urban Delivery (10-12 %)
- 5. Municipal Utility (4 %)

The ranges indicate the variation due to low, central and high distance estimates.

RICARDO-AEA

Note: UD = urban delivery; RD = regional delivery; LH = long haul; MU= municipal utility; CON= construction.

The Chartered Institute

LowC

3 primary options to reduce road freight carbon

No one technology or fuel will achieve reductions required, but three key areas are:

Switching to gas - up to 65 % (biomethane) / 16% (methane) WTW savings

- Large scale shift to use of gas for HCVe
- **ACTION Low Carbon Truck Trial and** LowCVP Gas Vehicle testing – see later

Improving aerodynamic efficiency / reducing rolling resistance - up to 10 % savings

- Long haul and regional delivery vehicles are
- **ACTION LowCVP HGV technology** accreditation scheme – see later
 - rer carbon savings while reducing overall costs.
- Supporting take-up of hybrid / pure electric vehicles up to 8 % WTW savings
- Hybrid / pure electric vehicle technologies particularly suitable for urban delivery and municipal utility.
- Technologies have the potential to reduce lifecycle GHG emissions by 20-50%.
- Also provide additional benefits of lower noise and reduce/eliminate tailpipe pollutants.
- Hybrid technology can also be applied to gas vehicles





Going Forward

New HGV with Euro VI certification delivers very low AQ emissions and should meet any target or zone likely to be imposed Uptake of existing fuel saving technology (Tyres, Aero etc) is patchy But – unlike Bus market, there are almost no zero emission solutions and no lower carbon diesel options making headway (Gas options are available)

Vans – will be the last vehicle category to have full Euro 6 with RDE implemented, so AQ question will remain

Plug in Van Grant available but very limited choice and uptake. Lack of range of innovative Van solutions

Much of the UK funding focus to date has been on Cars and Buses.

Clear need to stimulate the market in commercial vehicles across whole range, your support is needed to help define how best this should be done

