



LONDON FIRE BRIGADE

Cleaner Vehicles

If we can do it, anyone can

Nicole Fletcher, Head of Sustainable Development



- World's third largest fire and rescue service, largest in the UK
- Over 6,000 staff, some 5,500 fire-fighters
- Servicing Greater London's 8 million residents, workers and visitors across 1,587km²
- Aim to be a sustainability leader in the fire service

London's Air Quality

- levels of PM_{10} and NO_2 continue to exceed national air quality standards in some areas of London
- NO_2 levels recorded as worst in Europe, more than 3 times the limit in some locations
- Not expected to meet EU air quality limits until after 2030 without further measures



Our Fleet

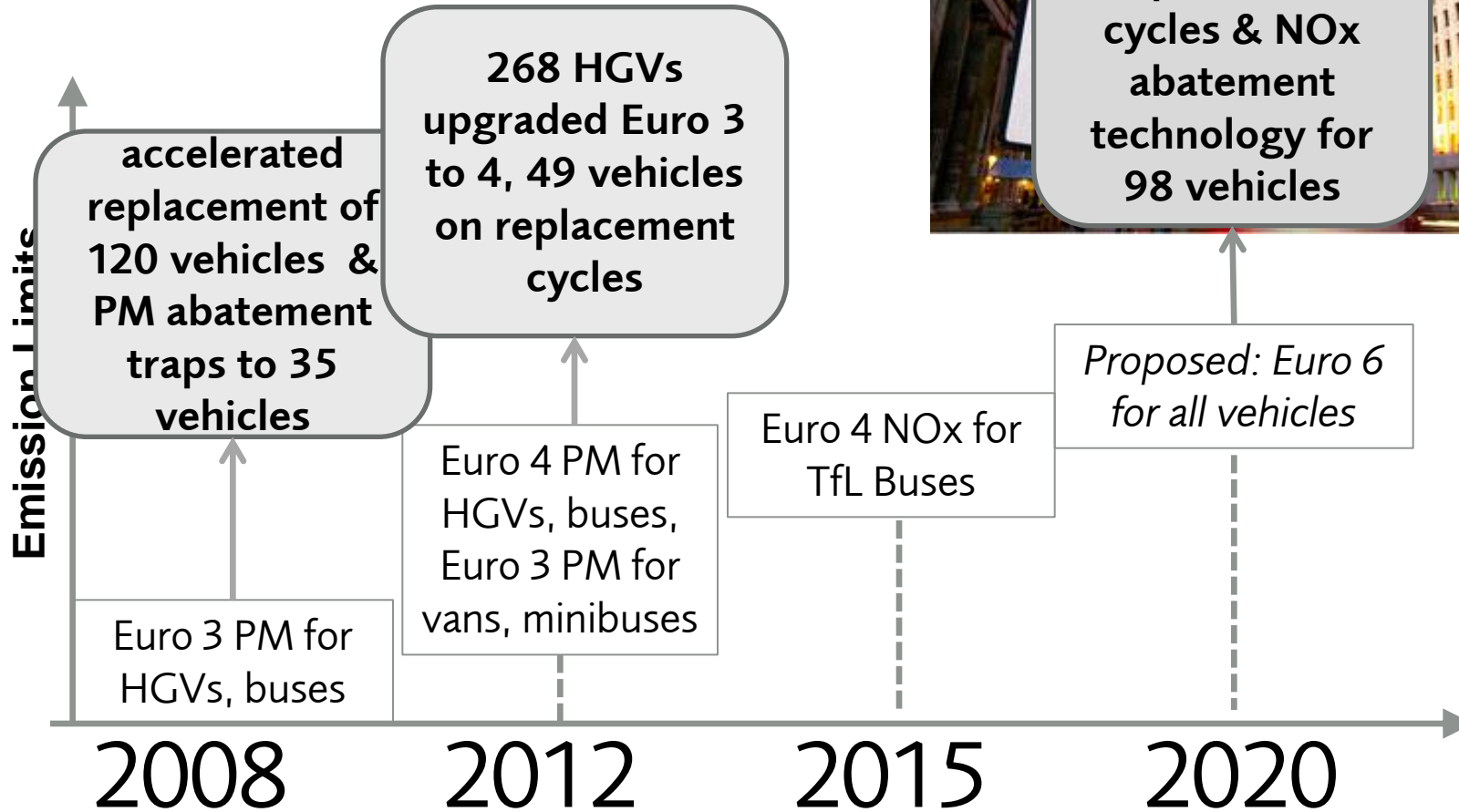
- Our fleet is maintained and procured by our Contractor based on our output specification



- 209 frontline vehicles
- 75 specialist HGVs
- 29 minibuses
- 53 vans
- 86 fleet cars
- Over 200 salary sacrifice lease cars

Some 225k HGVs and LGVs licensed to London addresses

Low Emission Zone



Ultra Low
Emission Zone

Emission limits & Car Schemes

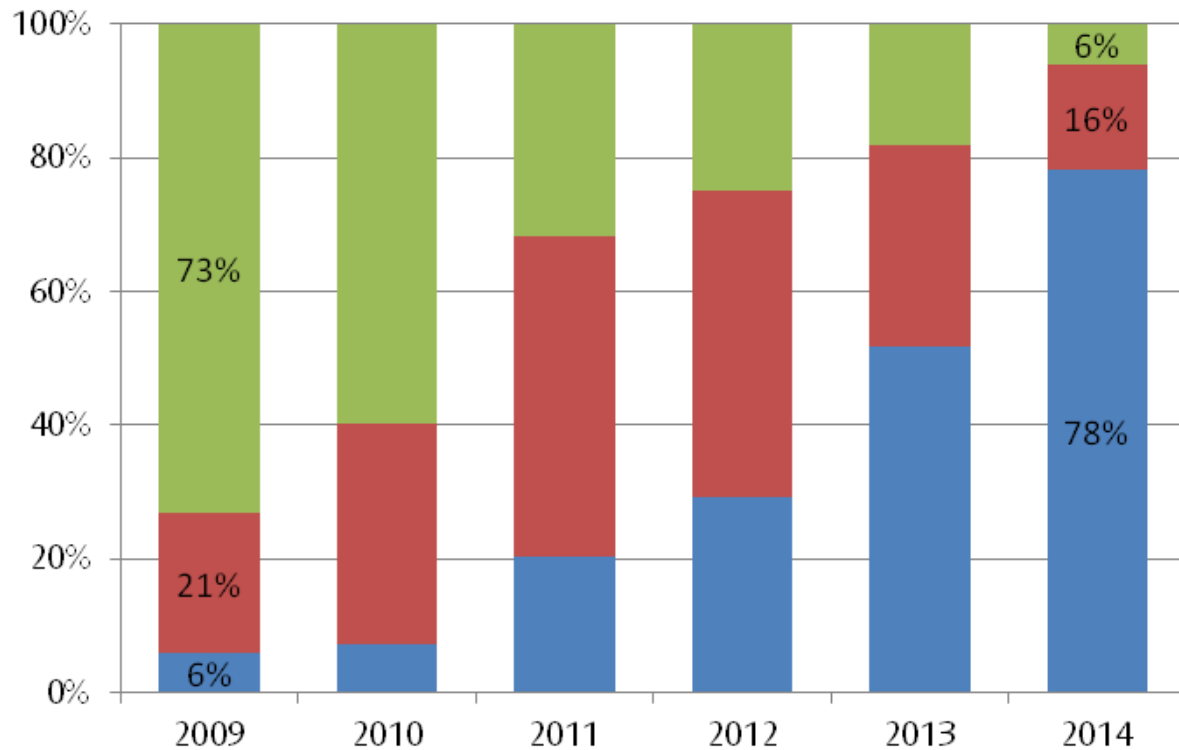
Emission Limits set in 2009	Lease Car Subsidy	Business Mileage Claims
<121 g/km CO ₂	100%	All schemes
121 - 150g/km CO ₂	50%	All schemes
>150g/km CO ₂	0%	Existing* users of private vehicles (must comply upon their next change of vehicle)

- Standards introduced for 3 car schemes for lease and private vehicles.
- Our fleet contractor proposed a new fleet car at 119g/km CO₂, providing a benchmark for car schemes.
- GPP criteria and UK Government Buying Standards considered.

*Existing users are those that joined the scheme prior to the emissions policy

Emissions Improvements

% of lease cars in emission categories



- 170g/km CO₂ previous average
- **Expected** £280k saving & 30% CO₂ reduction based on 50% vehicles within 121-150 g/km CO₂ range

- > 150 g/km CO₂
- 121 - 150
- 0 - 120

Testing Electric Vehicles

- Supplier engagement led to short term trials 2008-now of 10 different models of 100%, hybrid and range extender EVs at no cost.
- Desktop research in 2012 tested 2 user groups and identified EVs that meet technical requirements for range & space, but not cost.
- Range extender EV models successfully trialled by operational staff on duty.
- Aim to introduce EVs into our fleet via our 2015 car replacement cycle through our supplier led tender.



Electric Vehicle Chargepoints at Stations



- 75% Government grant funding announced
- Market research indicated suppliers would provide the remaining 25%
- Tendered on the basis of nil cost to the authority including:
 - PAYG technology only
 - Provision of some publicly accessible chargepoints
- **Result:** Project to install EVCs at 75 locations, up to 21 publicly accessible:
 - 100% external funding
 - no supplier transaction fee for LFB fleet

Fleet Contract – innovation as a contract requirement

20 year contract to source and maintain a Fleet of over 500 vehicles incorporating continuous improvements requirements:

- Contract Efficiency review every 2 years:
 - **37% Emission reduction target: Contractor proposals to reduce emissions by Year 10**
 - Market knowledge and research: proposals for new and evolving technology to improve the service, equipment and/or business process
 - Supply chain mapping: identify and address risk

Future Aspirations...



Thank you

Contact:

Nicole Fletcher

Head of Sustainable Development

London Fire Brigade

e: nicole.fletcher@london-fire.gov.uk