



## **Background information**

- Leeds named as one of 29 cities in the UK Governments air quality action plan.
- Leeds operates a fleet of vehicles with around 1,093 vehicles.
- Currently around 11% of these are Ultra Low Emissions Vehicles.
- The 11% consists of Hybrids, Electric and Compressed Natural Gas powered vehicles.



### **Themes of Fleet (23)**

LGVs	CNG ( Compressed Natural Gas) One Trucks Story.
3.5T	Consultation on CNG alternatives
Small Vans	EVs (Electric Vehicles) Charging Infrastructure

### **4499 One Trucks Story.**

- In 2006 Fleet Services had a vision of alternative fuelled vehicles being a part of the "normal" range of fleet vehicles within Leeds City Council.
- The use of CNG as a means of fuelling trucks was established within mainland Europe.
- There were no plans to import these into the UK, if we wanted to try one we would have to buy one! This was a big risk.

This truck purchase was made and it became fleet number
4499. The first CNG truck in the UK, not just in a Local
Authority.

### **Teething troubles?**

- The truck was delivered on time in 2008 all the way from Germany.
- The fuel station was delayed!
- As is the case for new technology the infrastructure for the supply of fuel is going to be the problem.
- Lesson one learned, It took longer to deliver a fuelling station than to build a truck from the wheels up!



### Vehicle has now covered 120,522 trouble free kilometres!



# 4499 comes of Age!

- •After nearly 10 years of service the vehicle is still running well.
- •No major components replaced.
- •No reliability issues.
- •One of if not *the* oldest vehicles on Leeds City Councils Fleet.
- •Front line use, not just a reserve vehicle, out day to day.
- •The concept has been proven to be viable.
- •Expansion of the fleet in this direction is no longer a dream, it has become a certainty!



### 4499 the legacy.

- 4499 has proven the practicality of running CNG vehicles to 7,9 or even ten years before replacement.
- Not only environmental benefits but significant financial savings are available.
- None of these benefits have been at the sacrifice of service provision, reliability or capability.



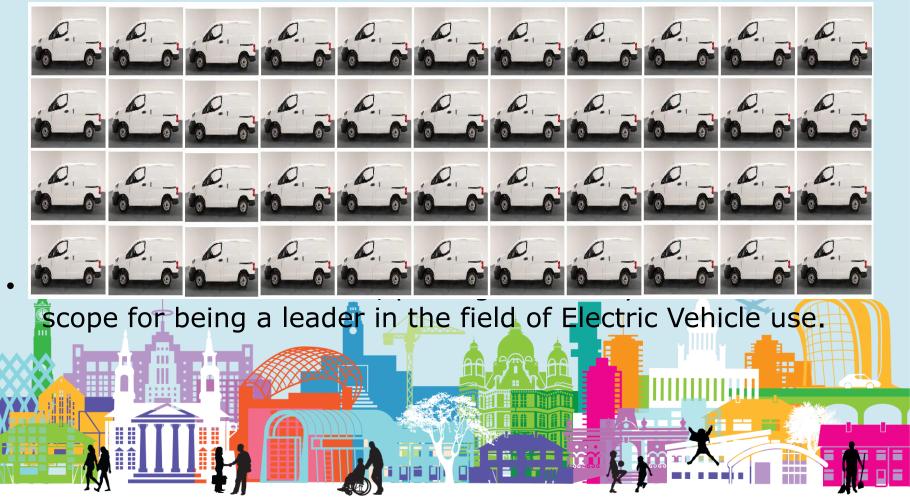
### The future?

- The provision of a larger fuelling site will enable more of these vehicles.
- The infrastructure will be in place before the fleet increases in size.
- CNG will make Leeds City Councils fleet of heavy vehicles become fully "clean air" compliant.
- Leading from the front, setting an example.



#### **Electric Vehicles (Ev's) story so far.**

• There are 44 electric vans already in service in Leeds City



### **EV Infrastructure.**

- There are already 89 charge points for Electric Vehicle charging in sites around the city. Learning: Infrastructure problems.
- More are planned as more vehicles are added to the fleet as a planned response to demand. Learning: Infrastructure solutions.
- Fleet Services have had engineers trained in the service and repair of these vehicles as a part of the future proofing of Council Services.
- After 18 months of use, these vehicles show no sign of reliability or durability issues.

### **Electric Vehicles in the city.**

- The electric vehicles being used are quiet, clean and reliable.
- They promote good driving to regenerate energy as they are driven.
- They are showing equal logistic capability to conventional vehicles.



# "Learning"

- CNG is viable, reliable and durable. It works well.
- EV's Overcoming the infrastructure issues by planning and surveys of most appropriate sites.
- Low Hanging Fruit.
- Continued engineer training on ULEV's.



### Gaining intelligence.

•The introduction of Telematics will give the Council.... •Information on traffic flow.

- •Better understanding of what vehicles become viable for which alternative fuel.
- •Time spent with the vehicle on idle at junctions.
- •All vital information for better planning.



### **The future SME?**

- The forward thinking towards the use of alternative fuelled vehicles Leeds has the potential to:
- Be the leaders in service and operation.
- Be seen as consultants in the best type of vehicles for other organisations.
- Assist in the running of other smaller fleets in the area.
- All of these have a potential income attached to them.



### Summary.

**VF66** 

- Leeds has a plan for the future of internal vehicle use.
- The plan is for clean, and practical vehicles.
- The plan is one for the long term.
- The create a cleaner city.
- To lead by example.
- To create a legacy for Leeds.
- Make Leeds the "Best Council".
- Thank you.