

**Low CVP Conference**

**Innovations in  
Freight Transport**

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# Howard Tenens – An Introduction

- Family owned private company
- Established in 1953
- Own & operate warehouses & transport
- 14 depots – own 3 million square feet
- 72 HGV's, 12 vans & 182 trailers
- 9 million miles per annum



# Howard Tenens – Sustainable Logistics

- Howard Tenens has made a commitment to assist all its customers reduce the carbon footprint of storing and distributing their products.
- To achieve this Howard Tenens is focusing on two main areas:
  - Renewable energy and energy efficient equipment for its warehouses
  - Alternative fuels for its haulage fleet



# Reducing Transport Sector Emissions

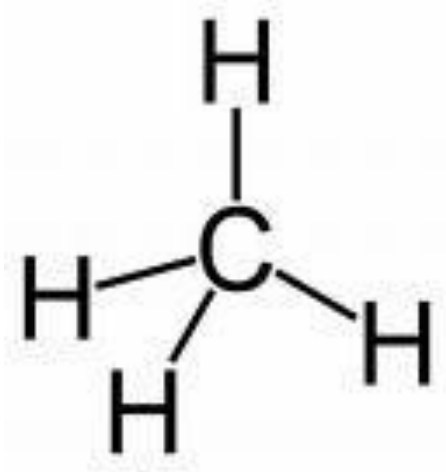
- Plenty of initiatives that any vehicle operator can adopt:
  - Reduction of empty running
  - Driver efficiency training
  - Minimising idling
  - Routing & tracking tools
  - Trailer design
- 
- To make the next step change required:
  - Vehicle design or alternative fuels



# Choosing fuel isn't simple

- Environmental impact
  - Energy efficiency of the fuel
  - Land use efficiency
  - Cost of the fuel (including duty)
  - Vehicle availability
  - Refuelling infrastructure
- 
- Fuel cells
  - Hydrogen
  - Bio-ethanol
  - Bio-diesel
  - Natural gas
  - Bio-methane

# Natural Gas as a Road Transport Fuel



- Cleanest of all the fossil fuels is methane
- Improves air quality
- Readily available
- LNG or CNG
- Supported by OEMs & no warranty issues
- Stepping stone to biomethane

# Dual Fuel Heavy Goods Vehicles





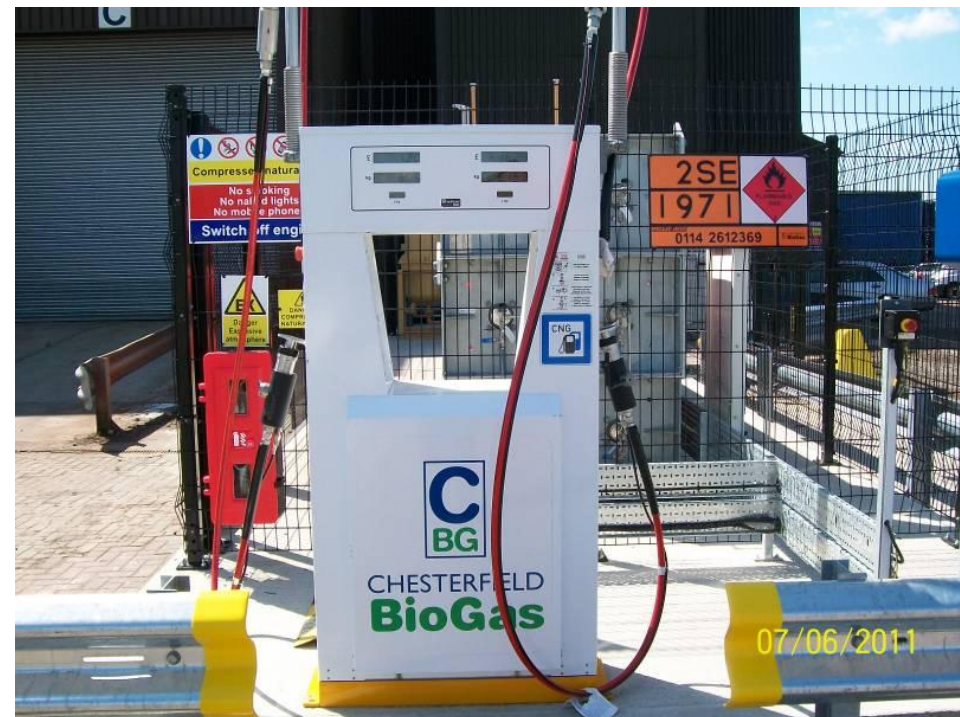
# Investment in Dual Fuel Vehicles

- 20 dual fuel vehicles on the road
- Solution has evolved over the last 3 years
- Have bespoke Howard Tenens conversion
- By introducing natural gas less emissions are produced
- Reduce CO<sub>2</sub> emissions by ~ 15%
- Reduce CO & NO<sub>x</sub> emissions
- Reduce exhaust noise levels by 3dB
- Lower particulates
- **ULTIMATELY** natural gas can be replaced with biomethane



# Gas Refuelling

- Andover LCNG station (Biomethane)
- 2 grid connected CNG stations:
  - Boston
  - Aveley
- These are open to 3<sup>rd</sup> parties by arrangement
- John Lewis was our first customer



# Gas Refuelling



# The Opportunity...

- To change the future of Heavy Goods road transport
- For environmental improvement
- For fuel security
- The Green Truck Fund



# The Challenge...

- To develop a lower carbon transport sector:
- Recognise CNG as an interim step to biomethane
- Extend the rolling duty differential between natural gas & diesel to at least 5 years
- This will encourage the uptake of vehicles
- Which in turn will give confidence for investment in refuelling infrastructure



# Summary

- CNG/ biomethane vehicles are available
- CNG should be a stepping stone to biomethane
- Companies want certainty over Government support
- Use fiscal incentives to encourage uptake
  
- Opportunity for new entrants with the Green Truck Fund





“Realising environmental ambitions”

