

Fuels Working Group

Malcolm Watson
UK Petroleum Industry Association



Aims of Fuels Group

LowCVP Fuels Working Group established to

- Develop a strategic view on medium and longterm options for fuelling low carbon transport
- Advise the Government on the fiscal and regulatory implications of its shared views
- Advise on the smooth development of a new fuel distribution infrastructure



Numerous Options

Resources

Crude Oil

Coal

Natural Gas

Biomass

Wind

Solar

Tidal

Nuclear

Fuels

Petrol
Diesel
Naphtha
Synthetic FT Diesel
Biodiesel
Methanol

Ethanol

LPG

Natural Gas

Hydrogen

DME

Electricity

Powertrains

Spark Ignition (Petrol)

Compression Ignition (Diesel)

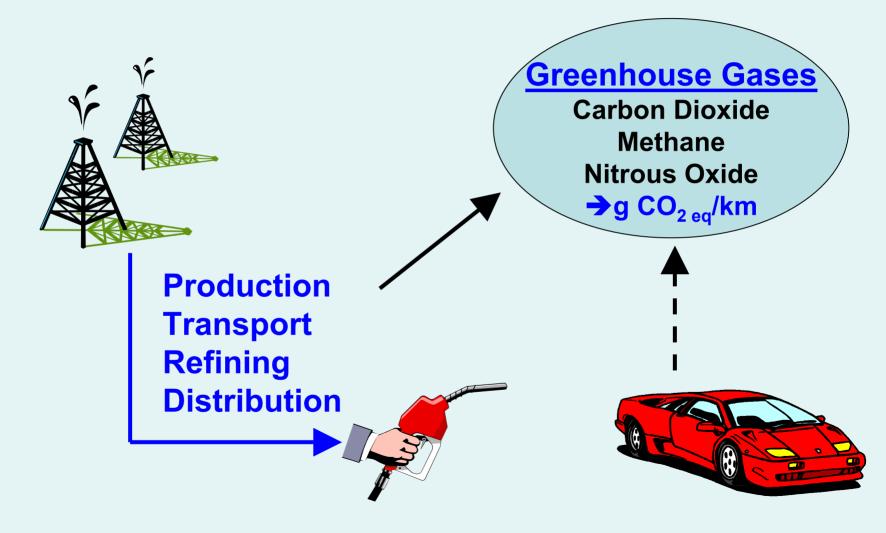
Fuel Cell

Battery Electric

Hybrids



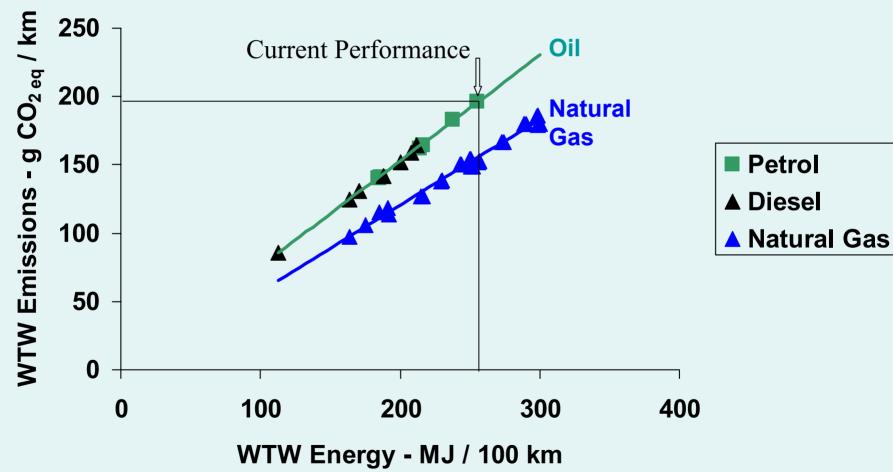
Well to Wheel Analysis





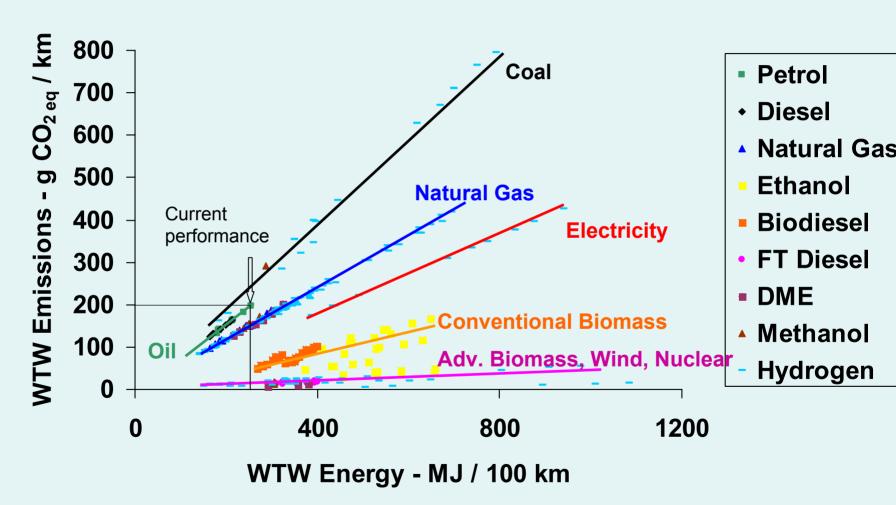
Concawe/Eucar/JRC Well to Wheels Study

Euro Compact car with 5 seats eg VW Golf



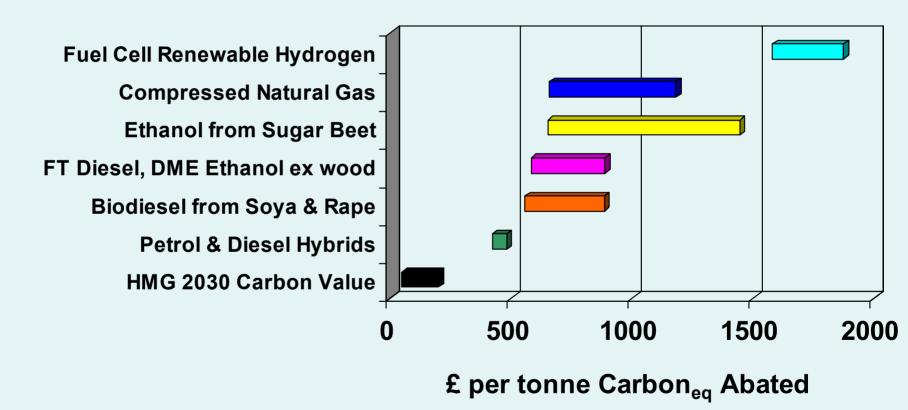


Concawe/Eucar/JRC Well to Wheels Study





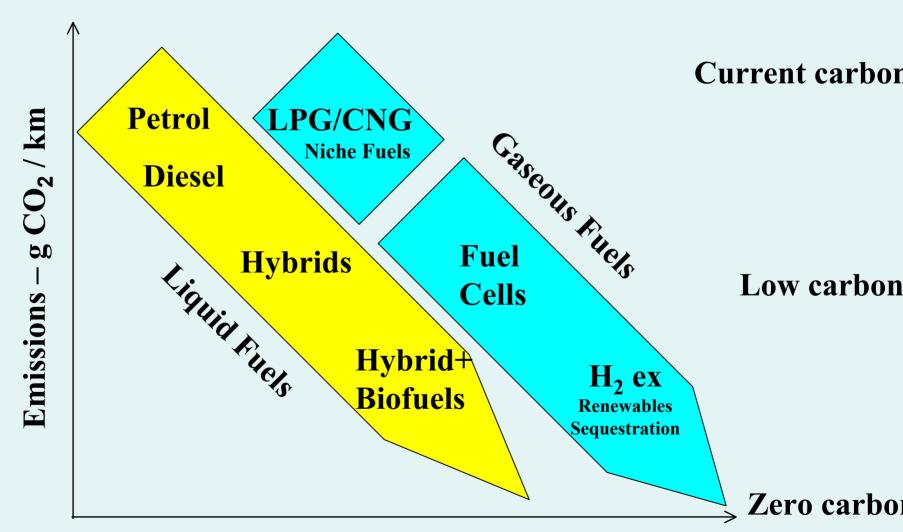
Hybrids < Biofuels < Hydroge



Sources Concawe/Eucar/JRC HMG GES Working Paper 140



Possible Future Vision



Year



Next Steps

- Combine all Well to Wheels Studies
- Advise HMG on biofuels and hydrogen
- Identify environmental impacts of UK biofuel production
- Evaluate fiscal measures
- Examine hydrogen refuelling infrastructure
- Identify options for R&D