
Low Carbon Transport: Future Fuels Opportunities

December 2021
D2 Joint Committee



Overview

Economy and Business Recovery Cell



D2 Economic Recovery Board



Low Carbon Mobility Task Force

❖ **Task Force** (chaired by Tony Walker)

- Exploring all aspects of low carbon transport opportunities – biggest initial CO2 savings
- Future will be both battery electric vehicles (BEV) and hydrogen vehicles

❖ **Mobility hubs**

- Low carbon 'interchanges' in key locations linked to electric charging points, mobility as a service, dial up services (demand responsive), e-bikes etc. Key applications in market towns (e.g. Staveley TD)

❖ **Potential for hydrogen infrastructure and vehicles**

- Researched market - soft market testing.
- Emerging interest but a clear supply and demand inter-play if there is enough demand, the hydrogen infrastructure suppliers are ready
- Arup report (commissioned by Derby City) – identified lots of potential but need to identify a clear pathway to support hydrogen, use of public sector assets to build confidence and catalyse progress

Developing the hydrogen demand

- ❖ Identified areas where low carbon technology would be deliverable in the short term – need to stimulate demand
 - Public transport vehicles
 - Freight vehicles
 - Local authority fleets
- ❖ **Emerging conditions:** Derby City, refuelling station at Willington (planning consent), Peak Resort – hydrogen based tourist service
- ❖ **Explored opportunities for wider bus fleet** – ZEBRA bid unsuccessful. Interest from hydrogen suppliers (ITM) but some nervousness from bus operators due to current market conditions (patronage etc) – not able to invest

Task force now looking at some quick win areas :

- Hydrogen buses (2 buses on one route) – demonstrators being explored with a couple of operators. Maximising private capital – exploring LEP funding (GPF?) to fill likely gap
- **Use of public sector fleet:**
 - **Opportunities as part of asset reviews or commissioning cycles**
 - **Identify opportunities for renewal/ conversion of vehicles to hydrogen/ electric e.g. South Derbyshire DC refuse vehicles**
 - **Working with suppliers/ contractors if appropriate**
 - **Identify strategic refuelling opportunities linked to public estate also**

So

- Where are the opportunities?
- Is there collective appetite?
- Next steps?