



Doncaster
Hydrogen
Refuelling Hub:
National and
Regional Activity

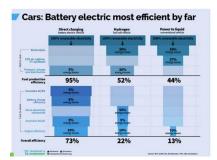
June 2022

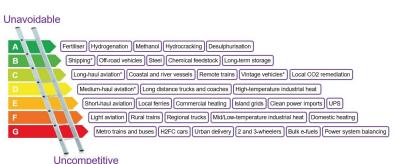




Why Hydrogen?







Hydrogen, the Silver Bullet (advantages)

Hard, costly and inefficient (disadvantages)

 Essential part of the decarbonisation toolkit (the reality)

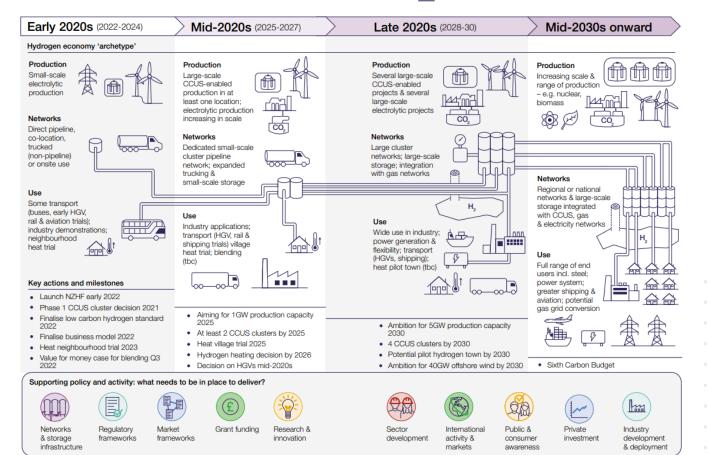




* Via ammonia or e-fuel rather than H2 gas or liquid



National Perspective



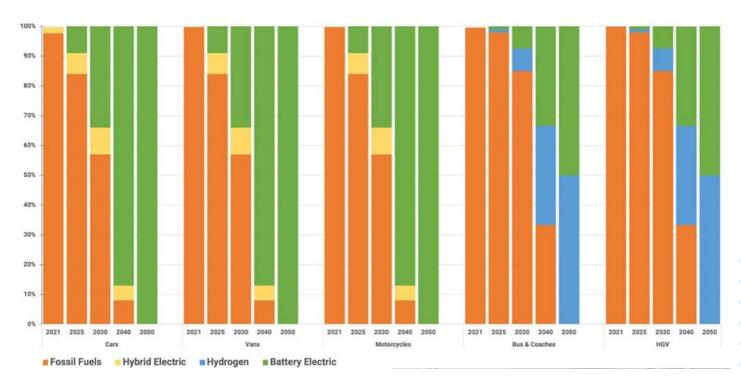
- UK Government policy support hydrogen as key enabler to netzero emissions
- 10 GW by 2030
- Green growth agenda
- Ban of non ZE vehicle sales (cars 2030, HGV<26t 2035, all HGVs 2040)
- Focus on hard to electrify areas
- Pre-commercial phase







National Demonstration Funding



- Innovate UK's Transport Vision forecasts a 100% penetration of ZE HGVs by 2050 and estimates a split of 50% hydrogen and 50% battery electric trucks.
- ZERFT Initiative provided nearly £20m funding for feasibility and EV truck demonstration
- Next step large scale demonstration trials of solutions for ZE HGVs (incl. H2)
- Feed in to UK strategy exp. 2025





Regional Projects

North West HyNET



Midlands Engine Hydrogen Technology Valley



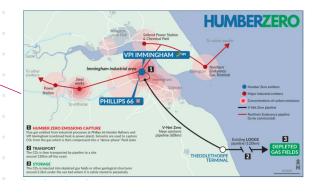
Electrolytic production project (under 5MW) Electrolytic production project (over 5MW) CCUS enabled production project (100 MW+) CO storage potential Offshore wind Note: Includes plans and proposals for known projects that are in the public domain. development in all parts of the UK. BEIS are continuing to gather intelligence on new projects as they emerge.

Hydrogen South West Consortium

Tees Valley Multi-Modal Hydrogen Transport Hub













Regional Opportunity.



- Central position of Doncaster can offer opportunities for distribution of hydrogen and hydrogen refuelling
- Potential for a hub and spoke generation and supply model
- Hydrogen pipeline being developed through the East Cost Hydrogen project could provide supply spurs to the region for the local SRN
- Opportunity to engage with the regional clusters to help develop a vision for it's place in the supply chain
- Opportunity for a wider South Yorkshire / Yorkshire H2 strategy



