





### What other opportunities do we need to consider?

- Generate a UK net negative energy export capability
- Agree with need for taking out need for deblending but .... how?
- Relocation of modular trains
- trade off between deblend and adapting customer plant - who decides who pays
- Managing rapid ramp rates from peaking generating plant used to balance increasing wind generation.
- policy on connections to gas grid in connectable areas - rural areas must collect to electricity network, which itself will have to expand for electrification of transport. need to balance growth between sectors to avoid duplication of new infrastructure.
- The role of Ofgem in collaboratively supporting this ?
- Develop a total UK supply chain to reduce vulnerability to imported material and equipment
- green hydrogen
- Role of innovation in reducing costs of de-blending / purification ... how can work / research in other sectors e.g. Nuclear help improve competitiveness of de-blending?
- Addition of modular trains
- What is the smallest scale for this deblending, can it be done on a micro-grid level?
- Large embedded industrial demand on distribution (<7bar) networks, which may not accommodate H2 blends.
- supply chain
- Develop technical standards and legislation to facilitate the transition
- Flexibility of the equipment as the percentage of Hydrogen increases over time
- who carries liabilities if deblend plant fails and downstream customers are affected
- Who will the responsibility lie with regarding ownership and operation of deblending technology, when delivering to DN's, Power, Industry, transport etc.
- Ability to transport Hydrogen away from production as a blend but then store as pure hydrogen
- facilitating large scale gas storage
- Development of customer safety confidence. Development of a Hydrogen workforce. Gas to fuel for Hydrogen vehicles re-charging network. New delivery and cost models. Hydrogen for uses beyond heating.
- Maximise business and manufacture for UK Companies and jobs here ... try to get Govt on board for that.
- Reproducibility



- To work at a global network level to identify areas of similar requirements and hence foster repeatability and standardisation of design to help reduce costs
- matching deblend with CCGT needs - profile for RE intermittency
- Biggest opportunity is to minimise the amount of Deblending
- Implications on operation, how to guarantee you get hydrogen where it needs to go