To meet the target of net zero emissions in the UK by 2050, it is likely that low-carbon hydrogen will need to play a role in the UK’s energy mix. As a transitional step, hydrogen can be blended into the existing methane grid, potentially up to 20% by volume, without any need for change to most domestic gas appliances.

However, some existing non-domestic gas customers may be sensitive to receiving hydrogen blends, or variability in the blend level. And some customers may want to consume (close to) pure hydrogen from the gas system. Deblending technologies that can separate hydrogen from natural gas could play a role in helping to manage these needs during the transition to a fully net-zero compliant system (e.g. a 100% hydrogen gas system).

The report "Gas Framework Changes to Enable Hydrogen Deblending" (commissioned by National Grid Gas Transmission and authored by Frontier Economics and contributed to by Dentons) explores how the gas sector commercial and regulatory frameworks may need to evolve to accommodate deblending on the UK gas networks, across both the NTS and distribution networks.

Download the full report

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