

Cadent: hydrogen opportunity from a DSO perspective

Andy Lewis IEA Low Carbon Gas Day 25 March 2022

The role of hydrogen in decarbonising heat



Who are Cadent?





Officially created - when National Grid sold its gas distribution business- we can trace our roots back 200 years, to the very start of the gas industry in Britain.



11 million homes and businesses in the UK are connected with our gas pipes





of gas pipes - placed end to end, that amount would stretch more than three times around the world.



Number of calls received in 2020. We manage the national gas emergency free phone line on behalf of the gas industry

Heat is a major source of emissions

Low carbon alternatives to natural gas are needed



- 85% of homes and businesses are connected to the gas grid
- Oil, LPG and coal still in use offgrid
- Focus on finding low carbon alternatives for space heating and industrial processes

Uncertainty over the heating technology mix in 2050

We know which technologies will play a role, just not the eventual mix of them



Heating technology, UK homes in 2050 (% of total, CCC)

- Future heat system will see a range of technologies chosen
- But all technologies
 are known today
- Hydrogen likely to play a role – volumes uncertain right now



Hydrogen is a firm part of UK Government planning

Managing Uncertainty

Taking low-regret actions and maintaining optionality



Cadent are investing in doing just that

Ensuring hydrogen will be able to play a role in decarbonising heat





Thank you

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