

APSE Scotland Climate Change and Renewables Network January 2024



SGN Overview

Our business



- SGN own and operate the gas distribution networks in Scotland and the South East of England, consisting of over 74,000km of gas pipelines, storage assets and above ground assets
- Supplying 6 million homes and businesses and over 14 million people
- Employing over 3,800 people
- Critical in the whole energy system
 and leading the way in the transition
 of the gas network to net zero energy
 and stimulating the hydrogen
 economy



Hydrogen Colour Spectrum







• 10 GW Low-carbon H_2 by 2030 – UK Gov.

5 GW Low-carbon H₂ by 2030 – Scottish Gov.

International Energy Agency, Global Hydrogen Review 2022, 22 September 2022, p. 71.

House of Commons Science and Technology Committee, The role of hydrogen in achieving Net Zero, 19 December 2022, p. 17.

Hydrogen End Uses



UK and Scottish Government decarbonisation targets



H100 Fife – demonstrating green hydrogen to customers



H100 Fife will provide technical and consumer evidence to support government policy decisions on heat decarbonisation



LTS Futures: repurposing the local transmission system to hydrogen

1.Determine the suitability of the materials in the network for hydrogen.

2. Validate the operational strategy for operating a hydrogen network, identifying any differences from operating a natural gas network.

3. Understanding the suitability of wayleaves and communication with landowners

4. Develop the skills and competencies, and procedures, for managing, operating and maintaining assets in a hydrogen network

5. Defining the role of LTS in a hydrogen system transformation.







Scotland Hydrogen Solutions Unlocking the Hydrogen Economy

Aberdeen

Edinburg



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Thank you

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Your gas. Our network.