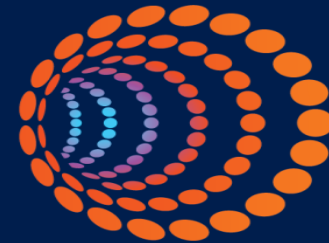


# Evidencing the Role of Hydrogen in Decarbonising Heat

## H100 Fife Overview

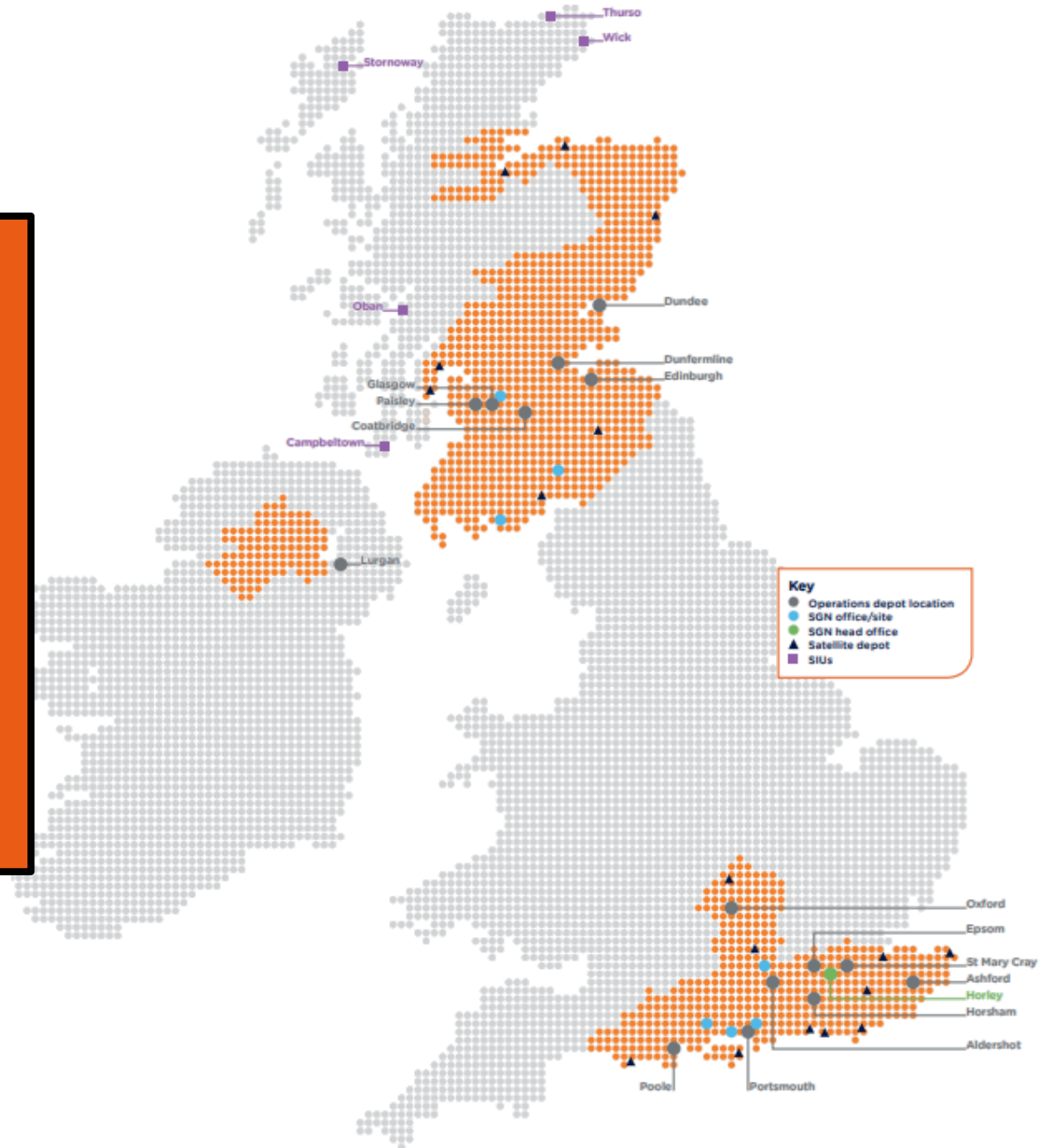
October 2021



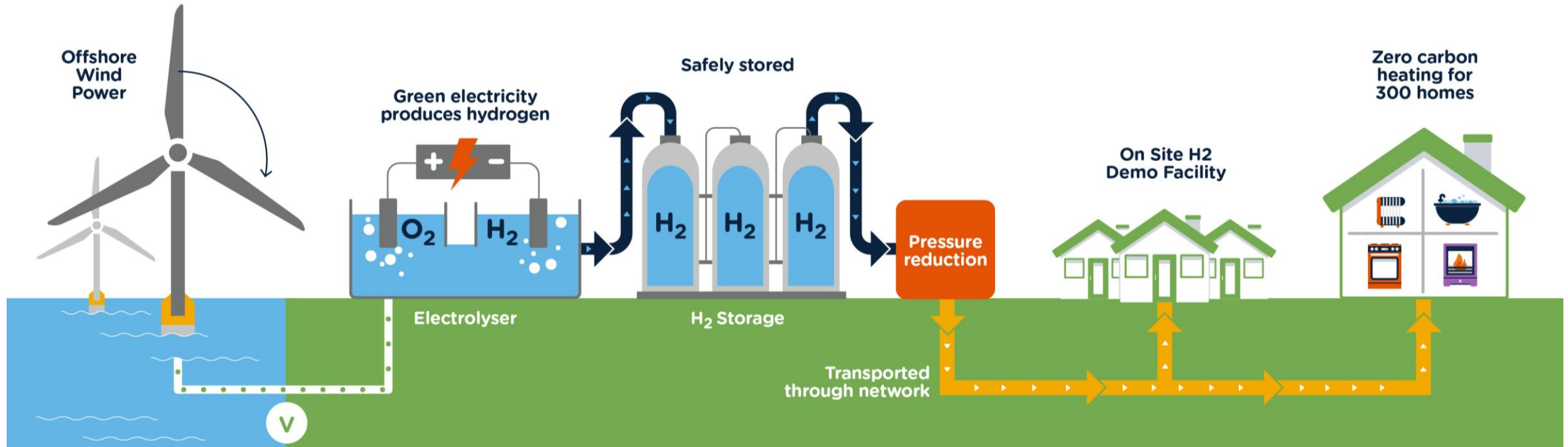
**SGN**  
Your gas. Our network.

# About SGN

- 3 distribution networks with 75,000km of gas pipes
  - Scotland
  - Southern
  - Northern Ireland
- 5.9 million customers – serving 14 million people of which 1.8 million vulnerable
- Connections - 22,000 each year, of which 4,000 are funded connections for fuel poor households



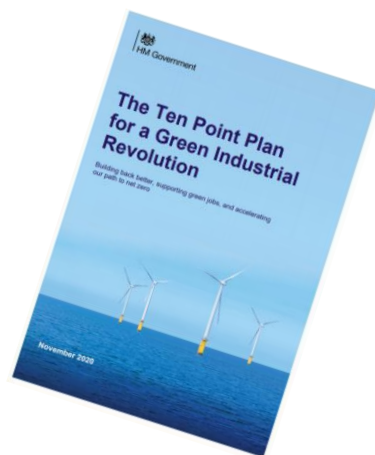
# H100 Fife – demonstrating green hydrogen to customers



- H100 Fife will provide technical and consumer evidence to support government policy decisions on heat decarbonisation. Phase 1:
- 2020 - funding from shareholders, Ofgem and Scottish Government secured
- 2021 – planning and consents
- 2021 - procurement and construction starts
- 2022 – construction finishes and commissioning
- 2023 – delivering zero carbon heat/green hydrogen to customers

# H100 Fife Future Expansion Opportunities

- Phase 1: 300 homes new network
- Phase 2: Increased homes & conversion
- Phase 3: Industrial & Commercial
- Phase 4: Transport
- Phase 5: Whole Systems & Hydrogen Coast



# Critical H100 Fife Outcome Examples

- Prioritised learning to inform hydrogen system transformation
- Validation of 80% of 280000km network materials, components, construction and operation on a live network.
- Quantifying and qualifying customer and social acceptance of hydrogen for heat in real-world trial
- End to end system interfaces management and learning across the whole system
- Statistically significant and scalable
- Informs heat policy decisions and future regulation
- Shared learning & knowledge transfer to facilitate hydrogen projects & roll out
- Market creation



Copyright © SGN

Thank you



**SGN**  
Your gas. Our network.