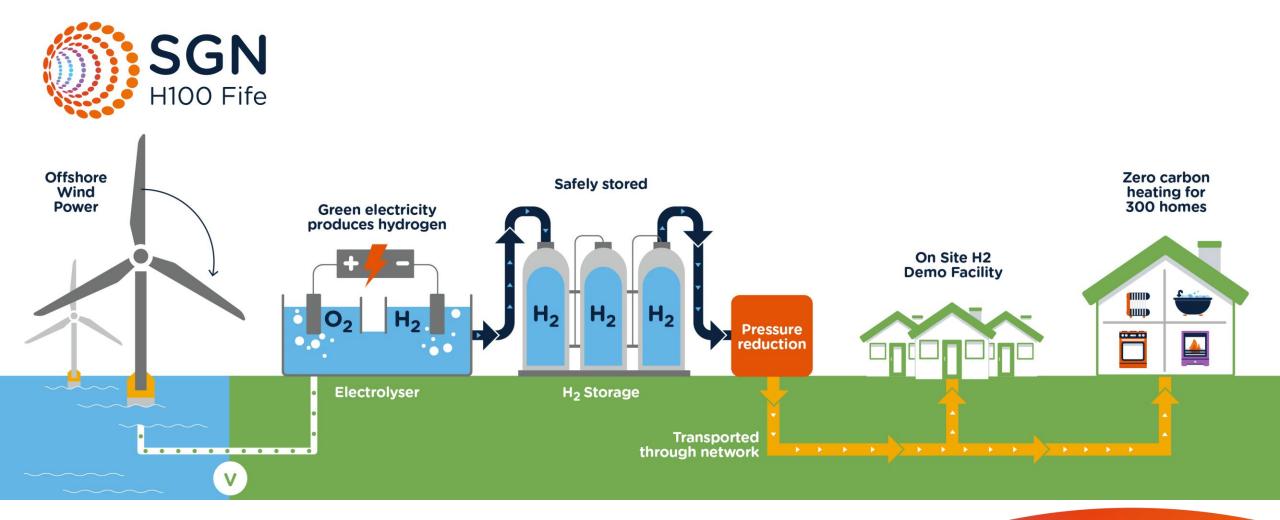
H100 Fife – Introduction

February 2021



End to end 100% hydrogen system





Classified as Internal

Evidence Base



Location – Levenmouth, Fife (Scotland)







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Customer Principles



Hydrogen Demonstration Facility



Participation Principles:

- Building customer confidence
- Providing interactive customer experience with hydrogen
- Maintaining customer choice model throughout project
- Customers can opt-in for a hydrogen supply or remain with existing natural gas supply
- Customers can remain with existing suppliers or retain flexibility to switch
- Reflecting existing arrangements as closely as possible
- Cost neutral to participate

Retail Principles



Commodity balancing and customer billing



Project sells hydrogen to shipper at natural gas price index



Cost differential between hydrogen production and natural gas index borne by the project



Increased cost of hydrogen production remains with the project upstream protecting retail supply chain



Customers energy unit cost of natural gas for hydrogen supply, this is reflected in customer bill



Metering and billing solution in development



Security of supply storage solution



Provision of hydrogen appliances and meters at no cost to customer, including maintenance



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Option to return to natural gas



Outcomes

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
- Future demand forecasting through heat profile data
- Informs heat policy decisions and future regulation
- Shared learning & knowledge transfer to facilitate hydrogen projects & roll out
- Market creation





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Key Dates & Next Steps

Ofgem deadline 17th March 2021 – H100 Fife Regulatory Framework Plan

- Plan for developing and executing project regulatory model
- Scoped metering and billing solution for hydrogen customers
- Understanding of potential changes required Xoserve systems, industry code modifications, licences
- Mapping of industry impacts
- Engagement with industry
- Timeline and next steps for implementing regulatory model

Ofgem deadline April 2022 – H100 Fife Regulatory Model Agreed

- Continue engagement with industry to validate regulatory solution and ability to participate
- Implement regulatory model before project operations end of 2022/start 2023

Industry Ask:

- Provide initial views on participation attractiveness.
- 2. Flag any barriers to participation and indicate how they should be addressed.



Thank you
H100 Fife video link https://www.sgn.co.uk/H100Fife

