

Gas Network Innovation Competition Full Submission
Supplementary Answer Form

Project: H21

Tick if this answer has been provided verbally: ☐

Project code	NGNGN05	Question Number	14
Question date	9 th Sept 2019	Answer date	12 th Sept 2019
Submission section question relates to	N/A		
Topic	Learnings from Phase 1 and other Hydrogen Projects		
Question	Please provide an update on progress and learning from other projects referenced in the phase 1 H21 bid and the phase 2 bid (both projects in the UK and in other jurisdictions). How do these learnings inform your proposals for phase 2?		
Notes on question			
Answer	<p>The H21 team have been liaising with other hydrogen projects to share learnings. This has been greatly assisted by having our project partners (DNV GL and HSE) onboard.</p> <p>As they are involved with the majority of the other hydrogen projects currently taking place, they are aware of the available knowledge and have assisted in coordinating the sharing of information. Some examples of these are:</p> <ul style="list-style-type: none">• H100 has provided input into those procedures that will form part of the detailed review and evidencing for H21 as part of Step 2 of the review process.• H100 and Hy4Heat continue to develop direct evidence which will feed into the review of procedures and components; for example some of the work on validating PE piping and jointing techniques will be referenceable as part of the component and procedures review on H21.• HyDeploy is commissioning an in-depth materials programme with Manchester University to provide data on long term performance of materials. This work will provide data towards assessing the long-term performance of a 100% H₂ network. As a sign of inter project collaboration from the H21 programme		

	<p>is being used for some of the samples for testing on the HyDeploy programme.</p> <ul style="list-style-type: none"> • People working on the H21 programme are also working on HyDeploy, H100, Hy4Heat, HyNTS and other programmes and so can identify and share relevant knowledge. • There continues to be an incentive to share scientific work across projects to provide robust peer review and build confidence in the case for conversion. • International interest in hydrogen for heating continues to grow with technical papers from the UK being presented at the International Conference in Hydrogen Safety in September. • The H21 team have held meetings with representatives from projects in the Netherlands and Germany who are also exploring use of 100% hydrogen as a domestic fuel. • H21 continues to be one of the most ambitious projects and at the moment is leading the way in terms of evidencing the detail of feasibility and conversion. <p>These learnings are currently being incorporated into the master test plan for Phase 2 under the NIA.</p>
Attachments	