

NHS meeting to discuss Hydrogen opportunity for your hospital
Q&A 24th August 2023

No	Trust Member	Question	Answer
1	Justine Alford	If our sites don't overlap with this map, is this talk/opportunity therefore not relevant for our Estate?	ALADEGBOLA, Mary - yes, this talk is specific for east coast hydrogen (ECH) opportunity and if your Trusts are not mapped to ECH, its not relevant
2	Chatten Andrew (Director of Estates & Facilities)	What is the timeframe for east midlands and piped supply	Sally Brewis - The first phase of construction will start 2028/31. The specifics of how East coast hydrogen is phased is determined through the pre-feed with technical work done end of October – once this is done then further information on timings
3	Istvan Sereg	How far would you deviate from the pipeline route to include an NHS site? What's the distance it's not worth going beyond?	Sally Brewis – We do not know the maximum spur length and is something to contact directly on so the calculation can be done. All NHS sites are being pulled through to the current 50 sites in development. East coast hydrogen distribution project – looking to utilise existing lines to repurpose pipes so can go longer. Any Trust interested in the regions get in touch with Clive and Mary direct
4	Chambers, Andy @ GWS EMEA (External)	Can you put me in touch with Capital Hydrogen for London development please.	

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5	WALTON, Paul (NORTHAMPTON GENERAL HOSPITAL)\	What is the ask at this stage please. is it an expression of interest? we work closely with CEF and I would like to understand better please	
6	Ehsan Sattar	What is the cost of Hydrogen in comparison to gas?	Clive Nattrass - The gas what comes through the pipeline is subsidised – paying the same for a KW hydrogen as for KW gas. Should be a good opportunity to green up. The Hydrogen business model does not apply to all the electrolyzers Alan Beech - Microgrid, CHP will not run as long as it does today, reduce down to 4000hrs. CHP will have thermal stores, when electricity price goes up then switch CHP on (meaning not enough renewable energy in the system) so a direct correlation to central gas. 50% plus electrical efficiencies are lost by point of use, that is why you fire up the CHP.
7	chambers, Andy @ GWS EMEA (External)	Would there be any maintenance / reliability issues associated with mixing H2 & air in the cylinder itself?	Clive Nattrass - You can pay for maintenance for kwh or kwh run Alan Beech – Maintenance is linked to engine run hours, so is reasonably proportionate. There are no reliability issues related to H2 mixing / 100% H2.
8	NABIH, Will (THE SHREWSBURY AND TELFORD HOSPITAL NHS TRUST)	I am unsure if Shropshire is best fitted to geo thermal or hydrogen?	
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