

Potential for District Energy route to net zero for your hospital
Q&A 17th August 2023

No	Trust Member	Question	Answer
1	OKE, Abraham (THE PRINCESS ALEXANDRA HOSPITAL NHS TRUST)	Hi. Do you have a heat network project in the pipeline for Harlow?	NHS Trusts, possibly with support from NHPower through the collaboration model, are going to have to talk to their concils and local stakeholders.
	GILL, Sarah (MID AND SOUTH ESSEX NHS FOUNDATION TRUST)	Or Essex	the heat network planning database is a good place to start Heat Networks Planning Database – www.data.gov.uk the EoE region is also undertaking an energy study that may highlight opportunity areas in essex
2	Featherstone Paul	RE: the Rotherham heat network. Very interesting and compelling. But, what happens if the landscape changes and it's no longer possible to utilise the waste heat from the Biomass plant? Can the source be switched to something else?	Jeremy Bungey - We have additional water source heat pumps that will supplement and then replace the biomass heat supply over time. As part of our collaboration NHPower is looking to bring Hydrogen to the Rotherham energy system and this should be available to this DE scheme too.
3	Bellas, Jean-Michel	Hi Jeremy, what heat tariffs are being proposed for the Rotherham DHN? Also, why will you use a heat pump to increase the supply temp to 85C? In terms of resilience at the hospital, how has this been factored in?	Jeremy Bungey - Heat tariffs are set to deliver 30 - 40% saving year on year compared to an individual building level heat pump system. We are raising the temp to 85% to minimise the impact on buildings. We have found that the cost benefit of running at a higher temp greatly outweighs the cost of fabric improvement on older buildings. However we would always

No	Trust Member	Question	Answer
			encourage customers to reduce demand as we can then connect more customers.
4	Neil Cartwright	Jeremy, all of our NHS sites (NHS Trusts, Primary and Community Care) in Rotherham are plotted on shapeatlas.net - do you have access to this?	Jeremy Bungey - Neil - I am not sure I'm afraid - is there a link you can share? Neil Cartwright - This is the spatial planning tool that is used by NHS that is being built upon and updated all the time https://shapeatlas.net/ https://app.shapeatlas.net/register
5	OKE, Abraham (THE PRINCESS ALEXANDRA HOSPITAL NHS TRUST)	Hi. Do you have a heat network project in the pipeline for Harlow?	London has developed a heat map that can help you identify planned networks in your LA areas, most London Boroughs have also produced an energy masterplan which highlights opportunity areas London Heat Map London City Hall
6	Bellas, Jean-Michel	Hi Jon S, how are Veolia improving the Sheffield DHN and optimising this network? and how are you considering the Scope 3 emissions from the waste received at the EFW plant?	Hi Jean-Michel. Great question, thank you. We have just completed some really state of the art carbon lining of the original DH pipework - a UK First and award winning innovation. All Veolia EFW's are planning to capture carbon from the flue gasses to further decarbonise. In addition to all these, we take pride in recycling as many of the process materials as possible, even the ashes which are used in construction materials. Hope this helps?
7	Xavier Hammersley	Apologies if I missed what the N+1 backup for a heat network is? Are you suggesting oil boiler backup for heating systems or will we have to have heat pump systems as backup?	ALADEGBOLA, Mary (NHS ENGLAND – X24) - this will largely be driven by NHS strategies for decarbonisation. currently, as part of the NZC building standard, gas boilers are permissible for backup, we are reviewing the EnCode and this will touch on this quite specifically

No	Trust Member	Question	Answer
			Jeremy Bungey - Xavier - there will be resilience built into the energy centre but we recognise that this may not be sufficient for hospitals and therefore some hospitals will retain their own boiler plant for additional resilience - hope this helps. Jon Sanderson - Veolia (Guest) – Hi Xavier, I was suggesting that electric boilers might be one form of back up due to their CAPEX benefit and talked about how SMART solutions , thermal storage and even A.I would also compliment them. But in truth, there is no "one size fits all" solution.
8	GRIFFIN, Cathal (KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST)	Hi Jon, could you link me up with a contact in Veolia who can advise if there are any plans to extend the South East London Combined Heat and Power heat network to Demark Hill. The LEA team at the GLA has suggested that we (King's College Hospital) discuss this with you.	Jon Sanderson - Veolia (Guest) – Hi Cathal, Please feel free to use this in the first instance : https://selchp.com/energy-recovery/district-heating/ We are currently extending the scheme to a further 3,500 homes
9	Featherstone Paul	Presumably, heat network customers cannot switch supplier once "signed up." How are prices protected, reliability and service quality guaranteed ?	C Natrass - The Energy Department is introducing legislation for heat networks – this will achieve two key things: • Introduce consumer protection – comparable with protections for gas and electricity • Introduce heat network zoning which will mandate public sector buildings to connect to heat networks Consumer protection does not protect NHS Trusts, so the intention of the NHPower collaboration is to produce a standard contract for NHS Trusts that

No	Trust Member	Question	Answer
			include the necessary protections, if there is enough support for this from Trusts