



Dcarbonse/All-Energy 2020

Low carbon heat: Are heat networks the answer?

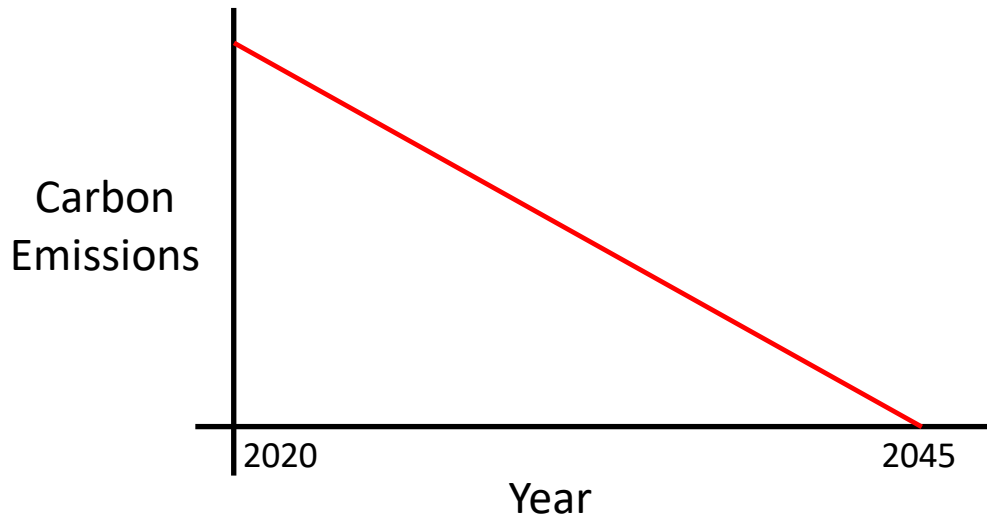
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Low carbon heat: are heat networks the answer?

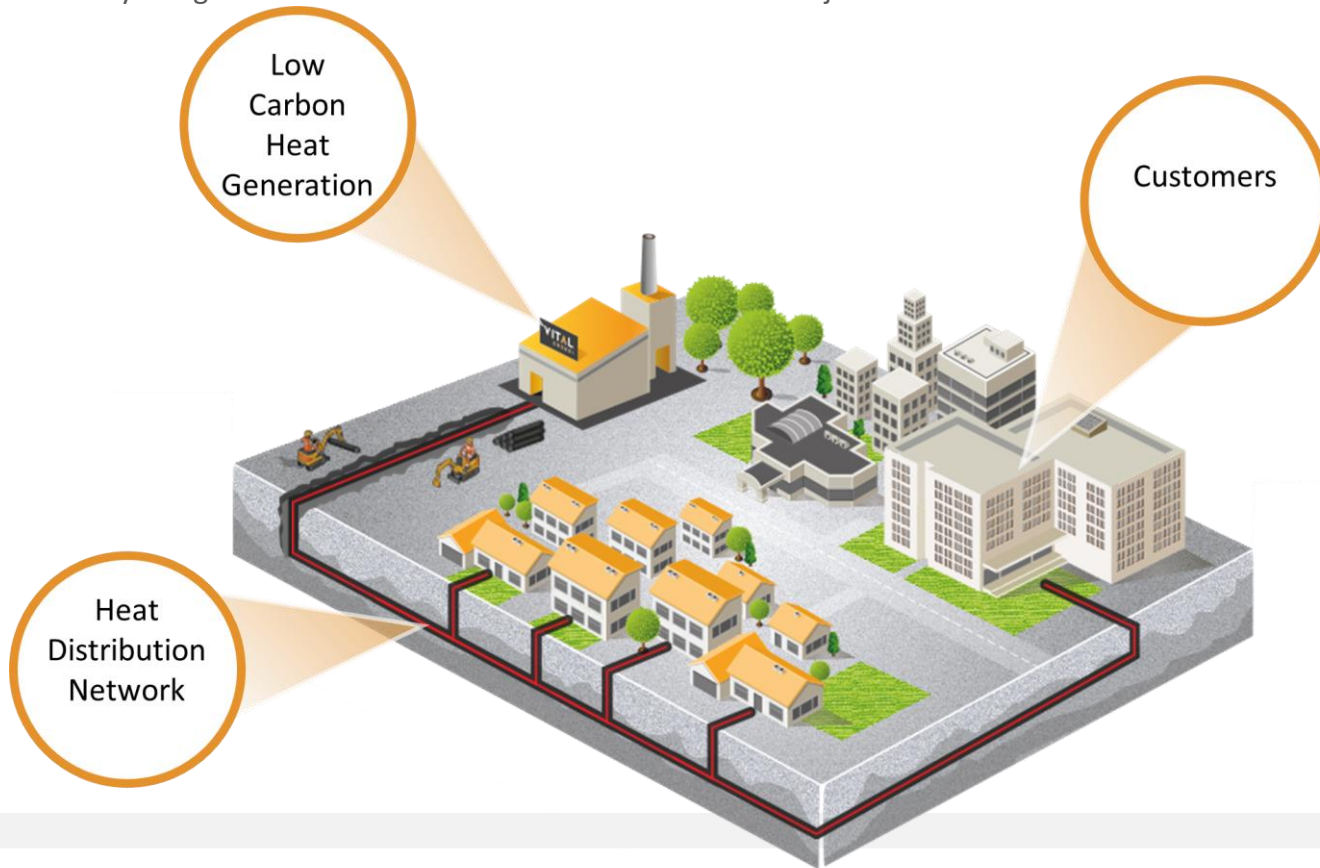
- > Deliver cleaner air and economic growth
- > Stimulate sustainable recovery post Covid-19
- > Whilst also meeting Climate Change Act commitments to de-carbonise heat:





Low carbon heat: are heat networks the answer?

> Three key things needed for heat networks to achieve these objectives





What is needed to achieve all of the above?

> Short term

- Extension of RHI tariff guarantee ✓
- Works restart on all construction sites
- Clarification of business rates exemption for district heating schemes
- Heat decarbonisation roadmap – providing signposting of long term policies and incentives (carrot and stick) which can support medium and long term action



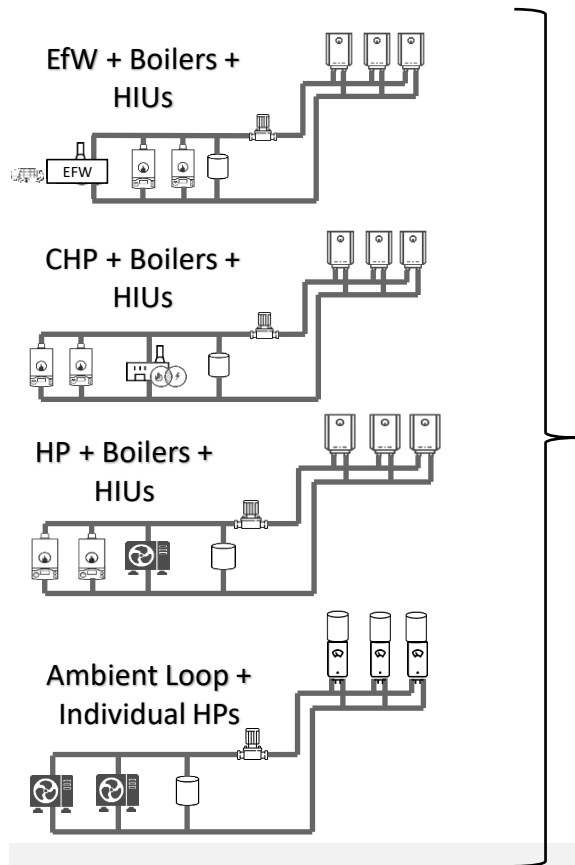
What is needed to achieve all of the above?

> Medium term

- Understanding of project viability beyond RHI. Although details are still to be confirmed, our fear is that capital funding from the Green Heat Network scheme will not be sufficient to bridge affordability gap
- LHEES - heat network zoning, enforced through planning for new build
- Encouraging existing properties to connect
 - Leadership from the Public Sector
 - Perhaps an increasing carbon cost in counterfactual energy costs?
 - Carbon emission cap and trade approach, like EUETS?
 - Air Quality (low emission zones)
- SAP methodology which support heat networks - Section 6 of Scottish Building Regulations (or Part L of the English Building Regulations)



Lots of technology options



District Heating



Multi-Dwelling Units

Individual Property Solutions

Gas Combi Boiler



Electric Panel Heaters



ASHP



GSHP

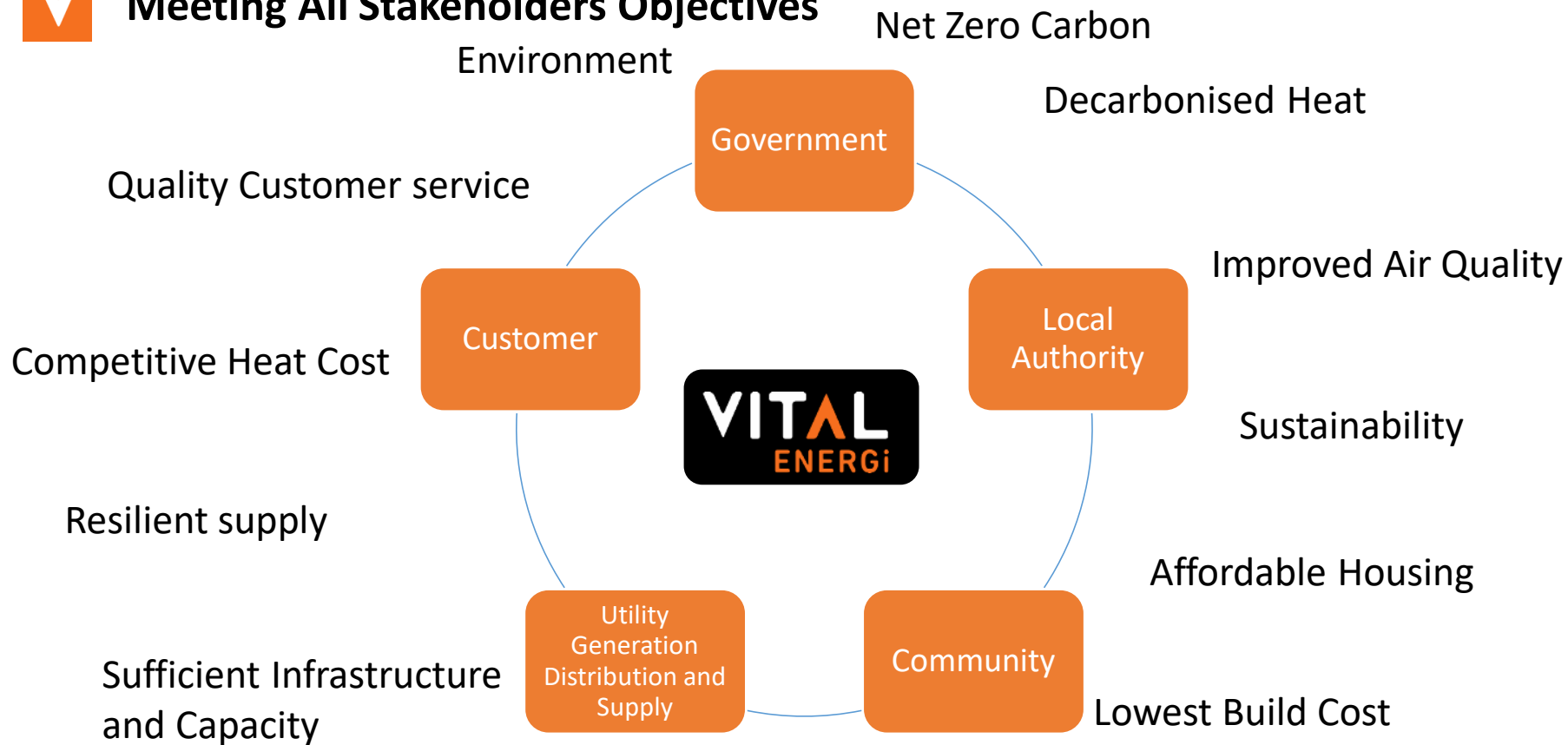


Hybrid – ASHP / Gas Boiler





Meeting All Stakeholders Objectives





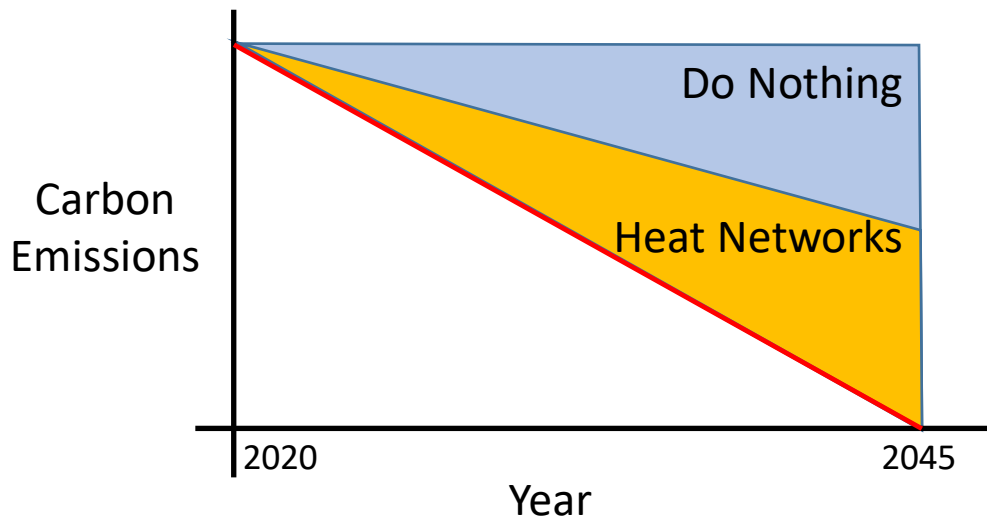
Objectives are not always aligned...





Low carbon heat: are heat networks the answer?

- > Heat network are critical infrastructure to facilitate the journey to net zero
- > Agnostic to the source of heat generation
- > Flexible to allow transitional technologies
- > But are only part of the answer....





Thank You

Nick Gosling
Group Sales and Strategy
Director

T: 07887 416 550

nick.gosling@vitalenergi.co.uk

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