

BURO HAPPOLD

Scottish Enterprise Clean Heat Accelerator

Heat networks

22nd July 2024

Buro Happold Energy Consultancy



Our values: We believe that distributed energy holds the key to mitigating climate change



Our mission: To implement the distributed energy revolution



Our offering: We help our clients realise value from distributed energy systems

Energy Planning

- Local Heat and Energy Efficiency Strategy (LHEES) Methodology guidance
- Pre-feasibility studies
- Feasibility studies

Energy System Design + Delivery

Net Zero Campuses

- District Energy Design specialists
- Breadth of expertise and specialist design capabilities
- Leading large and complex multi-disciplinary energy projects

Smart Energy Systems

Utilities Strategy & Commercialisation



Granton Waterfront
Options appraisal



Shawfair Heat Network – RIBA 3 design

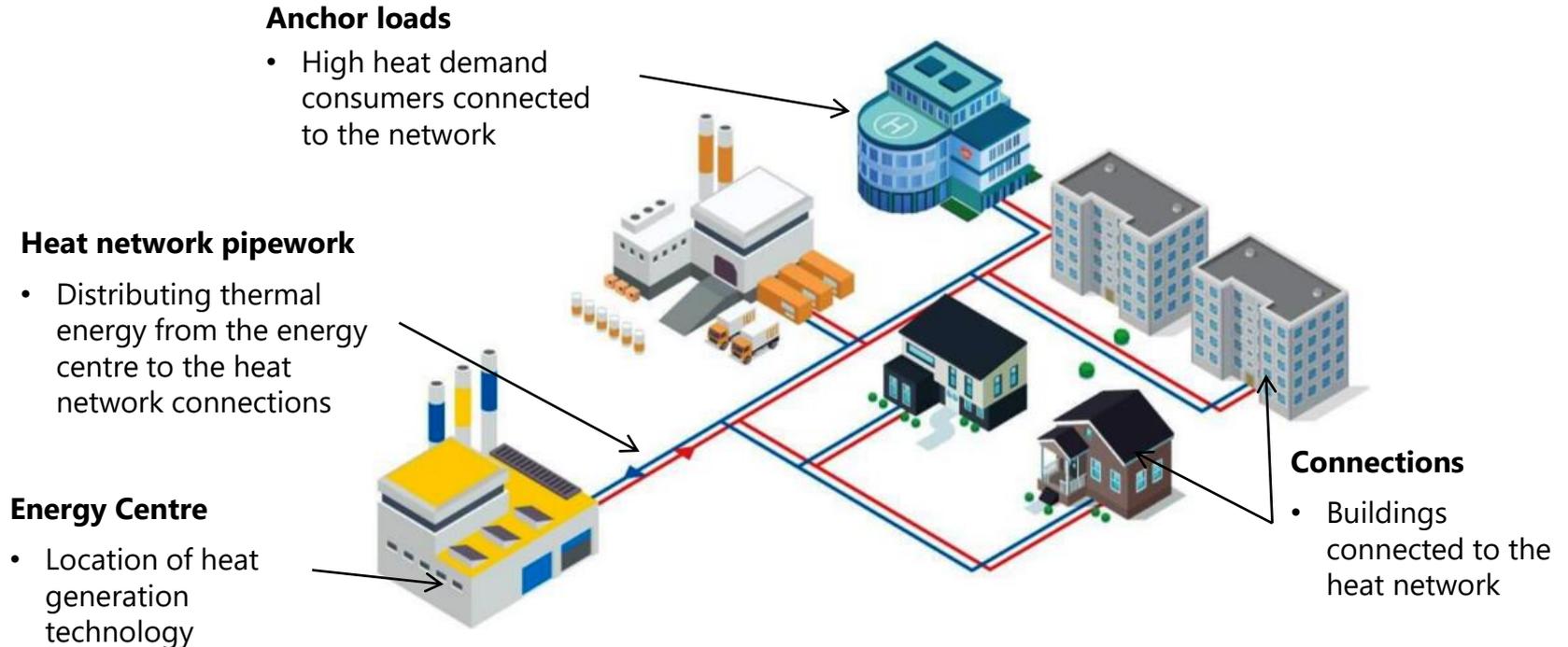


Advanced Manufacturing Innovation District Scotland (AMIDS)
Feasibility to commissioning

What is a heat network?

Scottish Parliament, Heat Networks (Scotland) Act 2021:

"A **district heat network** is a network by which **thermal energy** is **distributed** from one or more sources of production to **more than one building**."



Heat network scales

Discrete scale



Relatively few buildings connected in a localised area.

Example: Dundee Caird Park

- 2 buildings
- 3,500 MWh / year
- 1,200 m of pipework

Campus scale



Connected buildings are in a distinct, well-defined area.

Example: Advanced Manufacturing Innovation District Scotland (AMIDS)

- Approx. 24 buildings
- 15,000 MWh / year
- 3,800 m of pipework

City scale

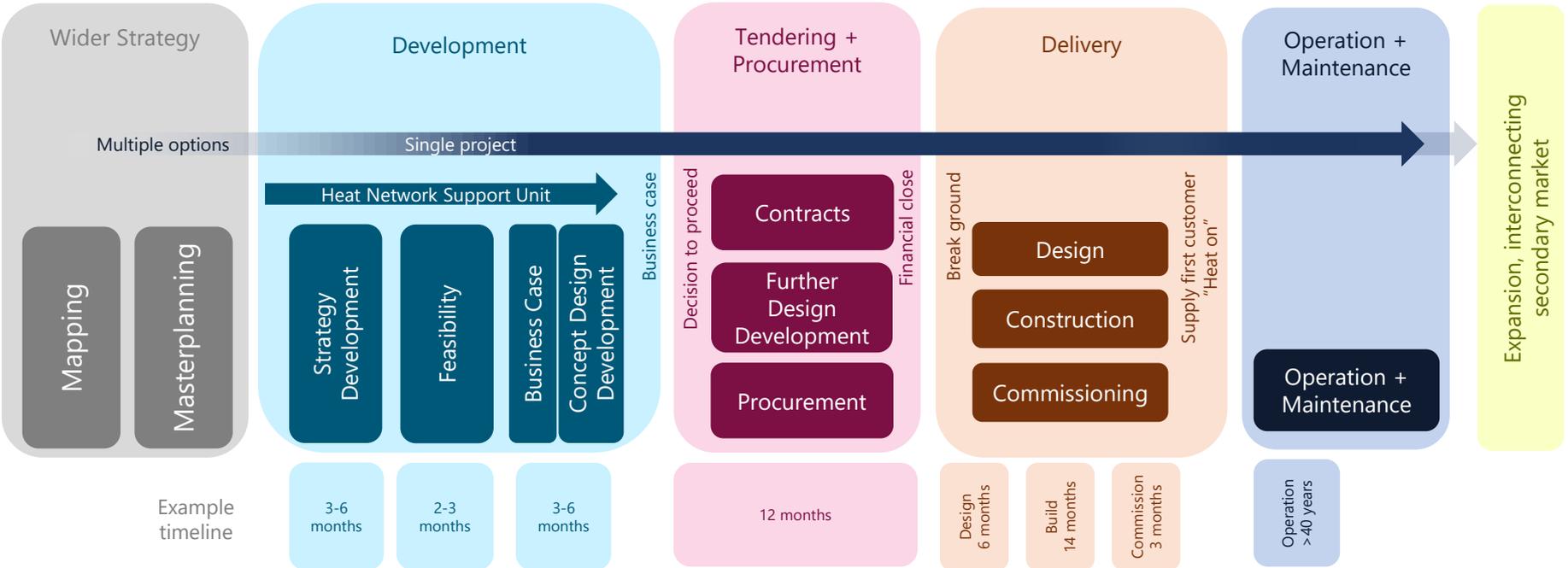


Large proportion of buildings connected across multiple city districts.

Example: Bristol Heat Network

- 2,400 buildings
- 260,000 MWh / year
- >5,000 m of pipework

Project development process



BURO HAPPOLD

JUMP ON BOARD!

We'd love to hear from you

Lara Balazs, lara.balazs@burohappold.com

James Dickinson, james.dickinson@burohappold.com

www.burohappold.com