



# Renewables and Climate Change Advisory Group

Phil Brennan,  
Head of APSE Energy  
2 February 2017

# Heat Networks



## Context

Circa 280 heat network projects

£2bn capital investment 2015-25; £3.2bn to £6.4bn O&M

Many other schemes at planning stage

More schemes - associated growth in the supply chain

## The network

Distribution system of insulated pipes.

Central heat source delivered to customers

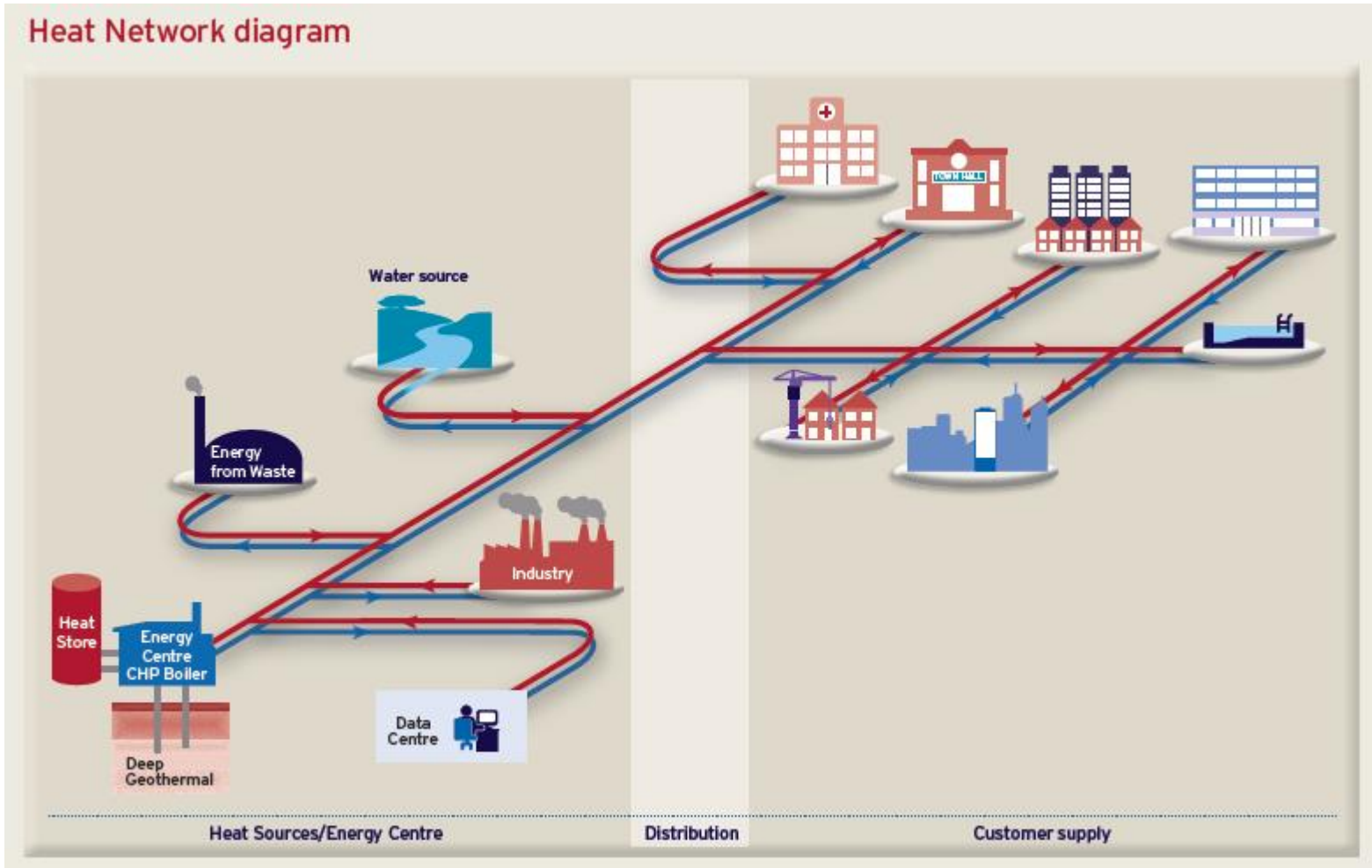
Can also generate electricity and provide cooling

Fuel agnostic

# Heat Network



Heat Network diagram



# Heat Network



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## Success factors

Stable and predictable cash flows – demand

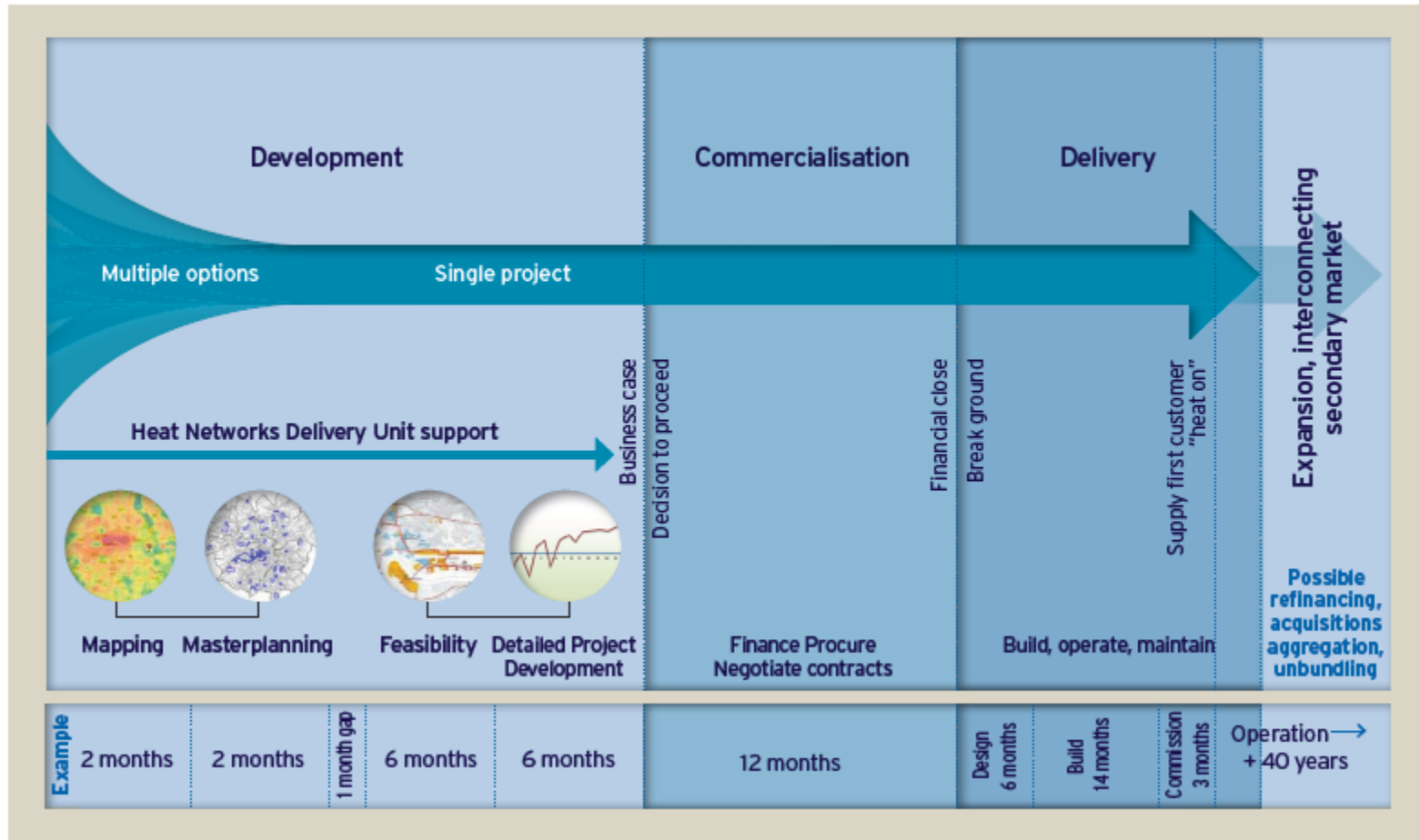
Long term projects

Potential to expand

# Heat Network



## Heat Networks: Development to Delivery



# Heat Network Forum



Remit - all heat network and related work of BEIS including:

- Heat Networks Investment Project;
- The Heat Networks Delivery Unit;
- Consumer protection policy;
- Innovation and research;
- Wider heat network policy and regulation.

Key aims -

- ensure that the £320m HNIP works as effectively as possible
- informing decision-making and the delivery
- provision of information on market and consumer confidence
- helping maintain and build consumer and industry confidence
- identifying issues and suggesting solutions for the wider deployment
- sharing knowledge, expertise, and market intelligence
- conveying relevant information
- input to heat networks policies

# Heat Network Forum



## Scale

- 2,000 UK heat networks
- heat to 210,000 dwellings/1,700 commercial & public buildings
- 14% of UK heat demand could be met by 2030, 43% by 2050

## LA role in successful project

- leading projects through development stages
- planning system
- owning or operating heat networks
- being a heat customer
- local benefits

## Issues raised

Understanding and level of knowledge

# Heat Network Forum



BEIS – Questions, issues, statements

- Financial
- Application process
- Technical
- Capacity
- Understanding
- Marketing/messages

APSE Energy can help



Workshop - The Merton Rule  
York Council Offices  
**24<sup>th</sup> February 2017**



This is an opportunity to learn about the principle and practicalities of The Merton Rule, to hear from other local authorities, to discuss and ask questions.

Speakers - Ray Noble (Associate, APSE Energy and REA)  
Martin Grainger (Head of Strategic Planning, City of York Council)  
Steve Cirell (Associate, APSE and REA).

An overview of the Merton Rule, interpretation and problems;  
a case study of problems and barriers in York and how the LA is addressing them;  
linking the Merton Rule to the wider planning process, available powers,  
development plans, enforcement, engaging with developers and good practice.  
Group discussion.

APSE Energy members are Free. APSE members - £99

[www.apse.org.uk](http://www.apse.org.uk)



# Workshop – Underground water. A resource for local energy

Channel View Leisure Centre, Grangetown,  
Cardiff, CF11 7HB

**9<sup>th</sup> March 2017**

This event will be run in with the British Geological Survey looking at the topic of underground water and how this resource is being used for heat generation. It is a widespread resource being found under many towns and cities. The workshop will consider the work done by Cardiff City Council to investigate and use this resource and as well as the potential for ground water heating in other locations. It will look at the ground source scheme from an engineering, operational, financial and policy perspective.

Speakers – David Boon (BGS)  
Gareth Harcombe (Cardiff City Council)  
Site visit  
Group discussion.

APSE Energy members are Free. APSE members - £99

[www.apse.org.uk](http://www.apse.org.uk)

The Big Energy Summit  
Woodland Grange Hotel, Old Milverton Lane,  
Leamington Spa, Warks, CV32 6RN  
**16<sup>th</sup> 17<sup>th</sup> March 2017**



A wide ranging summit aimed at keeping officers and members up to date with developments across the energy sector. There will be presentations, workshops, case studies, opportunities to network with industry experts, suppliers and colleagues from other local authorities.

Topics to be covered include – income generation, fuel poverty, climate change, battery technology, grid access, heat networks, smart cities, ESCos, procurement and much more

There will be speakers representing OFGEM, BEIS, academic institutions, local Authorities, WE Link and Alan Whitehead MP.

APSE Energy members are Free. APSE members - £499



# Contact details

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