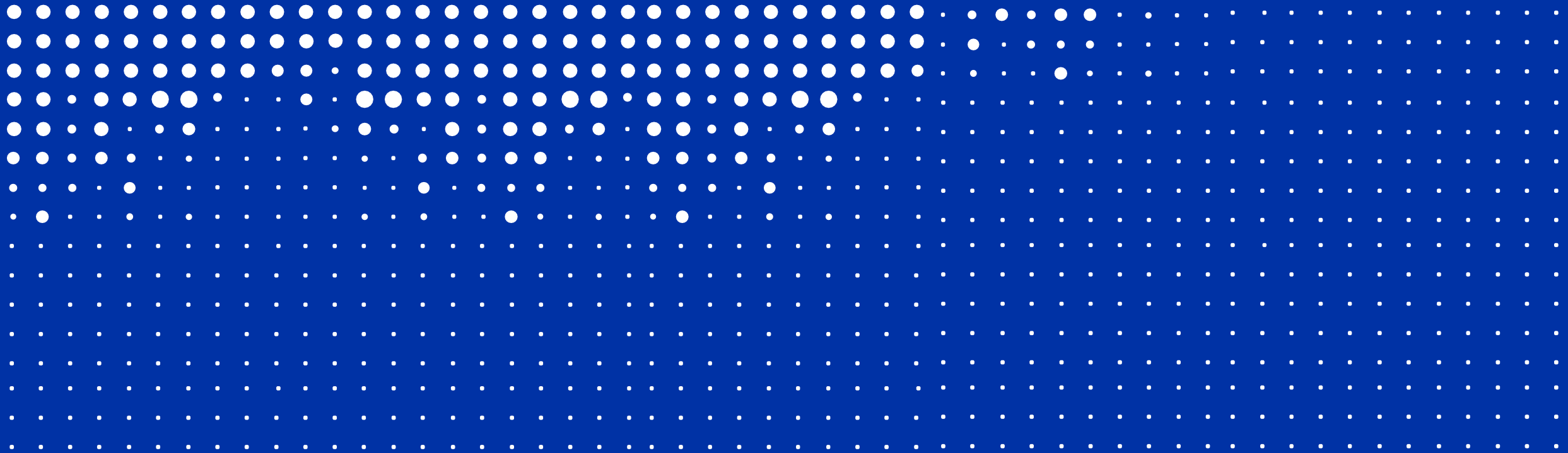


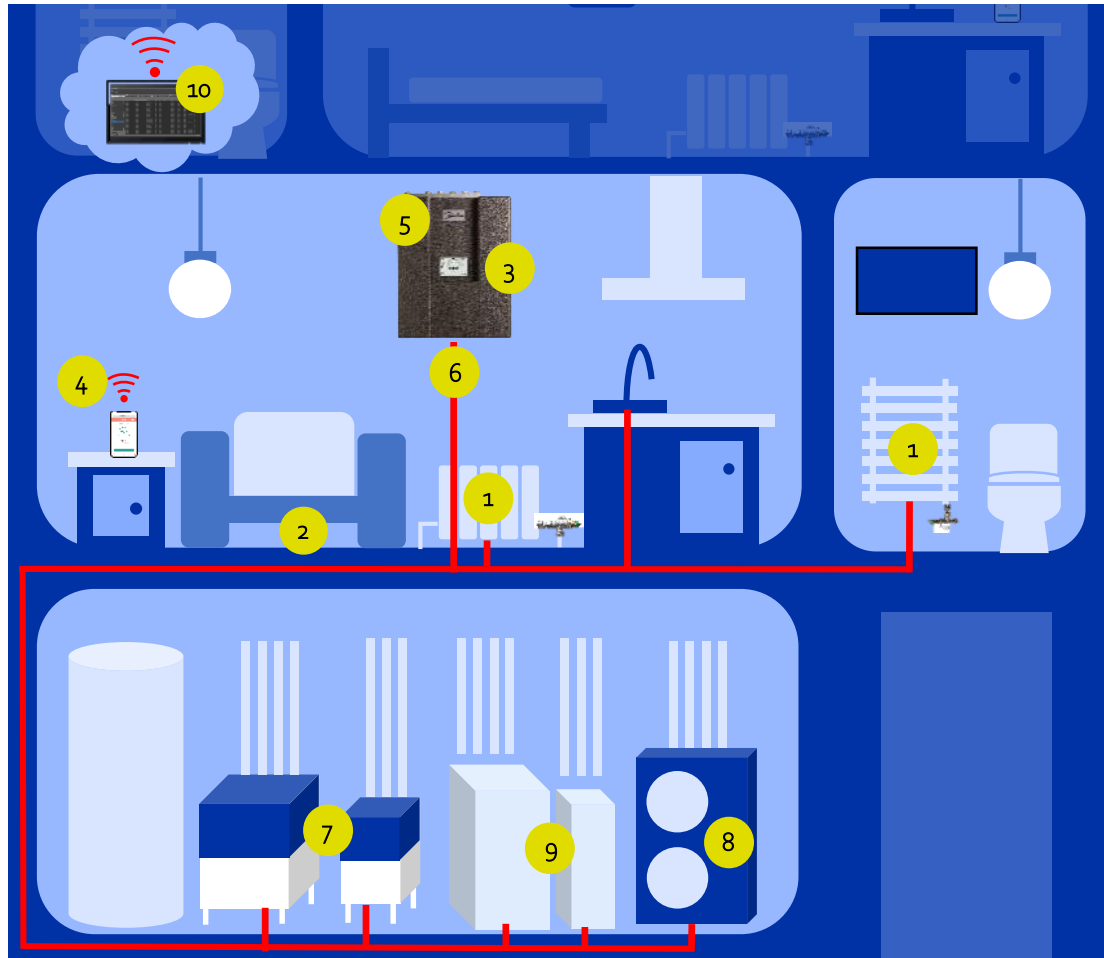
Heat Networks: South East England ^{SAY}

Barking & Dagenham case story

27/04/2022



What we do - Heat Networks



- 1 Pt40 & Rt40**
(pre-settable pressure-independent TRVs for radiators and RTLs for towel rails)

2 Ft40
(pre-settable pressure-independent inserts for UFH manifolds)

- 3 Kamstrup (Heat Meters)**

4 Kurve (app-based prepayment system)

- 5 Danfoss FlatStation HIUs**
(Heat Interface Units)

6 UMS (Ultrasonic metering station)

- 7 LoadTracker CHP** (Combined Heat and Power)

8 Heat pumps (Mitsubishi heat pumps)

- 9 Electric Boilers**

10 Meter-reading software (READY)

Barking & Dagenham



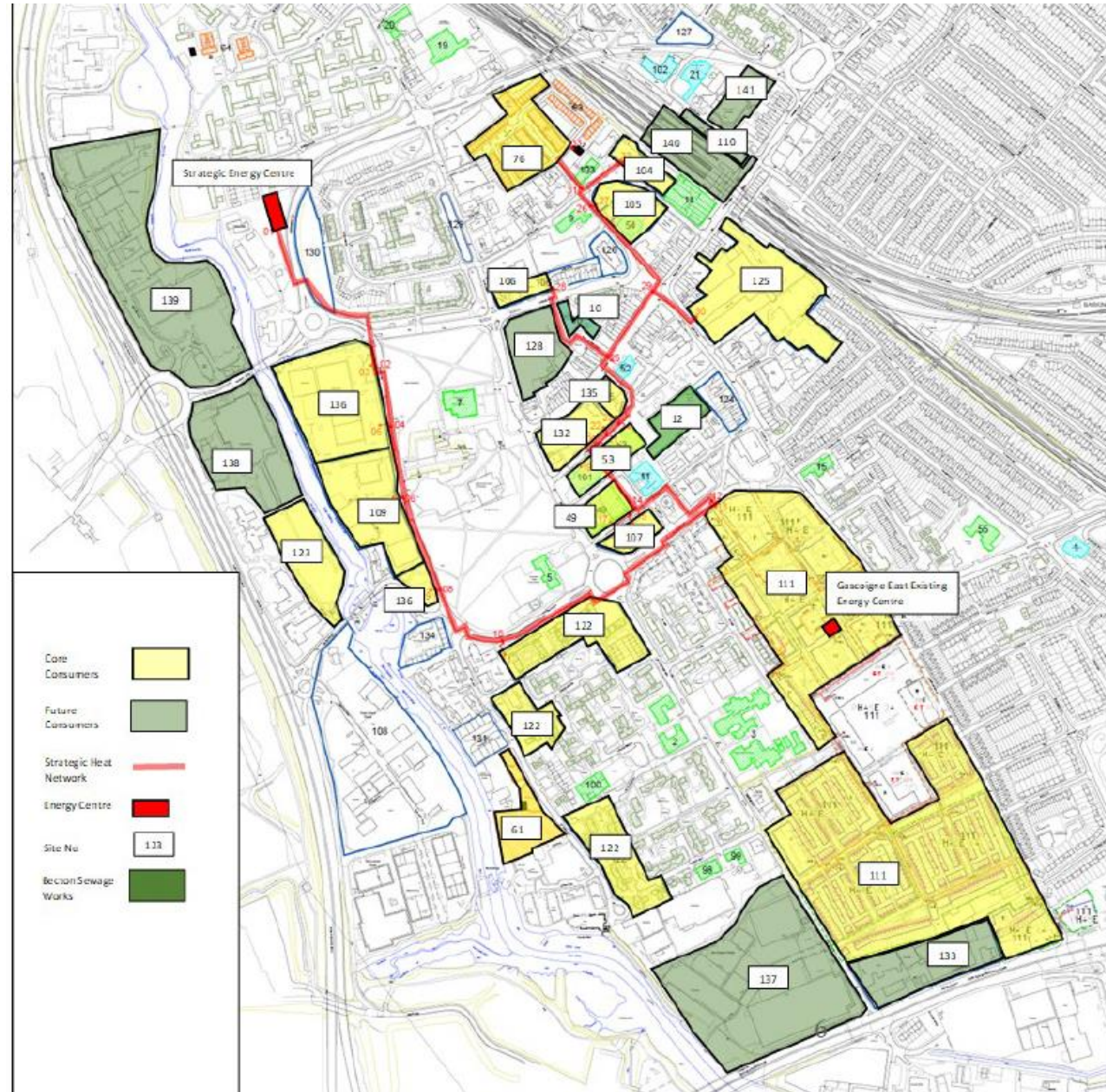
Establishment of ESCO

- Council-owned
- HNIP funding
- Commitment through planning



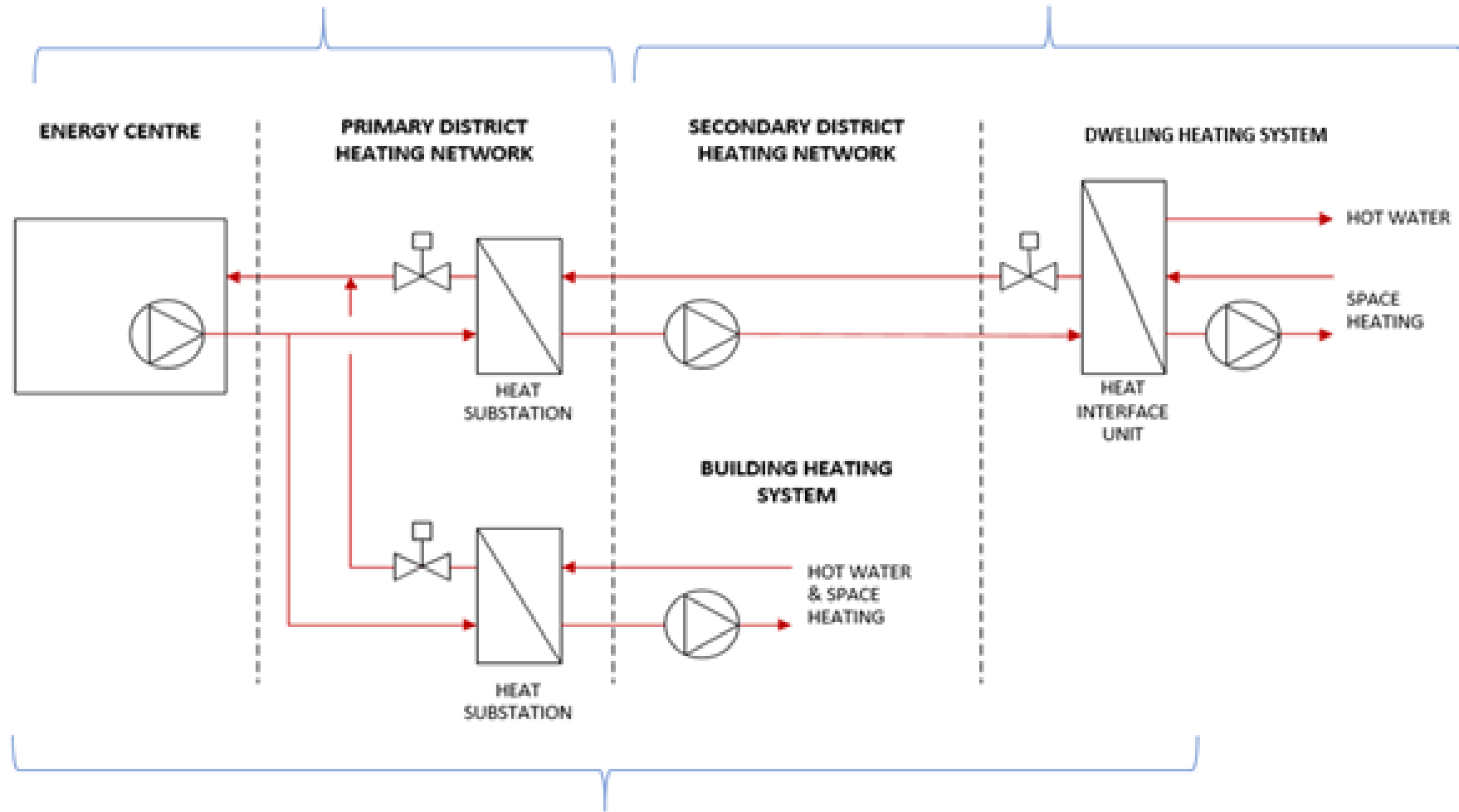
Barking Town Centre

- 15 sites
- 2 km pipework
- Council and private development sites
- New developments are captured by planning
- Aim to supply up to 10,000 homes by 2027



B&D Energy Constructs

Developer Constructs



B&D Energy Operates

Detailed technical specification for developers

- Design requirements
- Pre-commissioning procedure and check lists
- Commissioning procedure and check lists
- Post-commissioning procedure and site report
- Preferred supplier list and required support

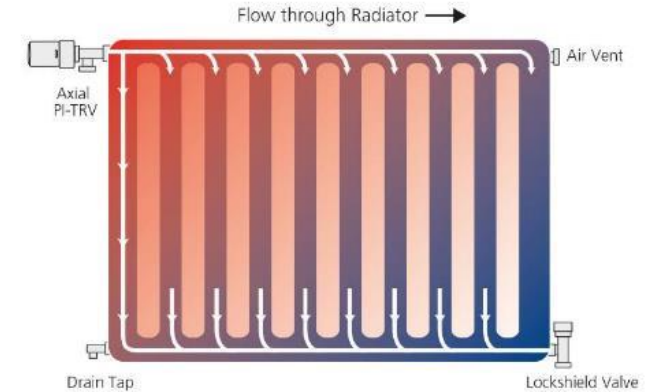
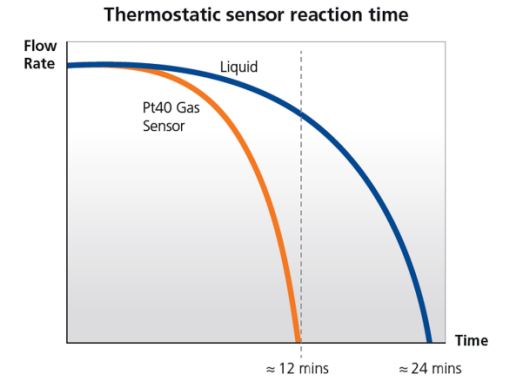
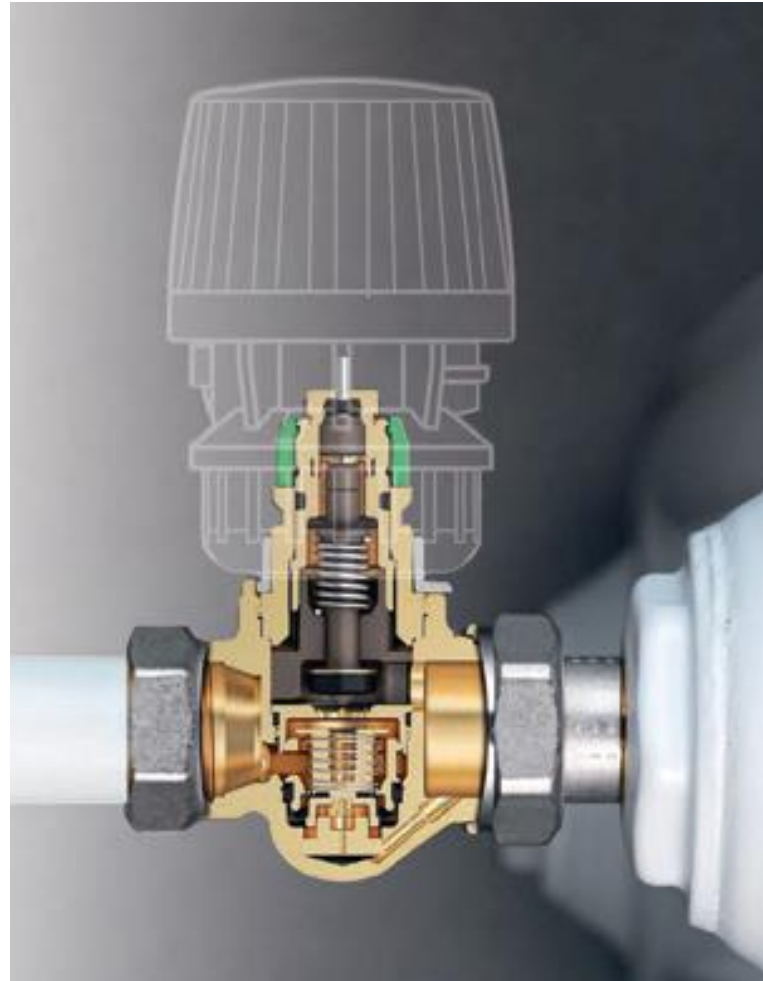
B&D ENERGY - DISTRICT HEATING TECHNICAL
SPECIFICATION FOR DEVELOPERS

VERSION 4

AUGUST 2019

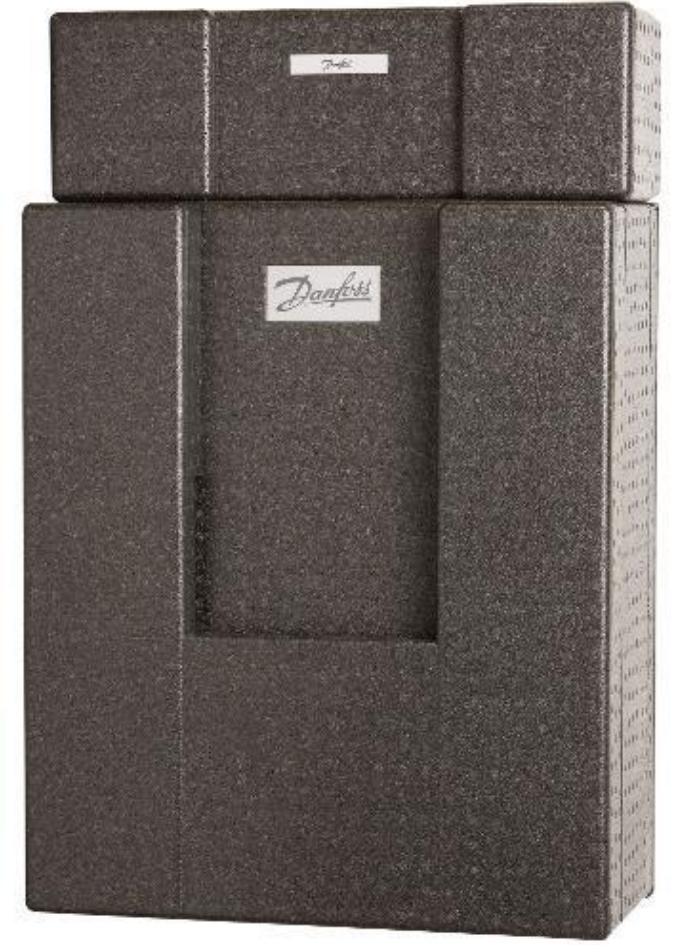
Requirements – Space heating

- User comfort
- Ease of installation
- Automatic balancing
- Low return temperatures



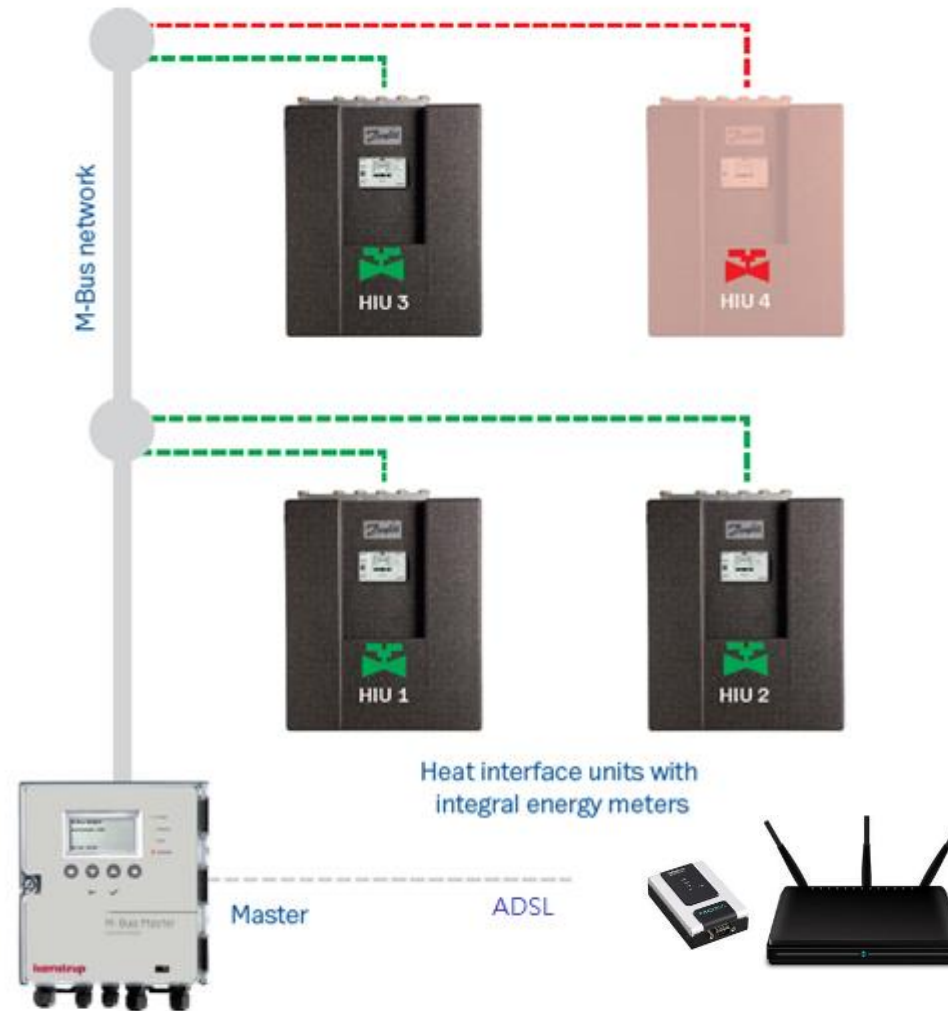
Requirements - HIU

- Standardisation
- Track record in the UK
- Low maintenance
- Efficient
- Low heat losses



Requirements – Metering

- Open-protocol infrastructure
- Robustness
- Remote disconnect option
- Monitoring system



Support from SAV:

O&M/contractor teams

- Commissioning, fault-finding, maintenance training

Pre-commissioning

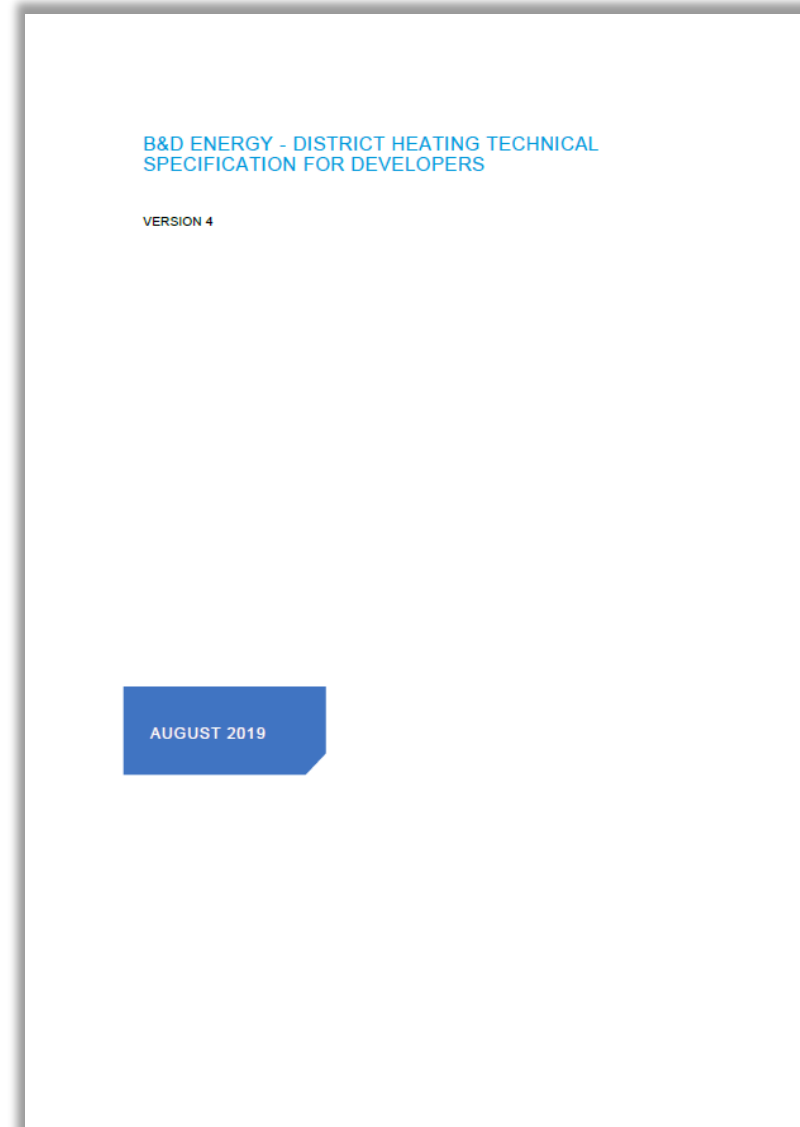
- TRV settings schedule according to radiator selections

During commissioning

- Review of process

Post-commissioning

- On-site installation check and site report
- Performance monitoring report



Key takeaways:

- Use planning proactively. Secure connections to the heat network
- Team up with experts. Specify criteria and equipment that will deliver efficient networks
- Don't be afraid of being demanding. Set the bar high for the supply chain to support and deliver a great scheme



SAV_s Trusted
Technology Partner

Thank you
for your attention
