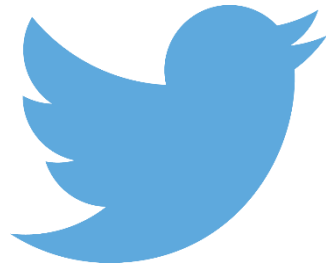


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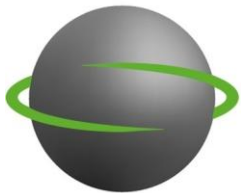


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The Practicalities - Heat networks, LHEES and other stories!

Mike Keating

APSE Energy Associate
& Directors of Salvis

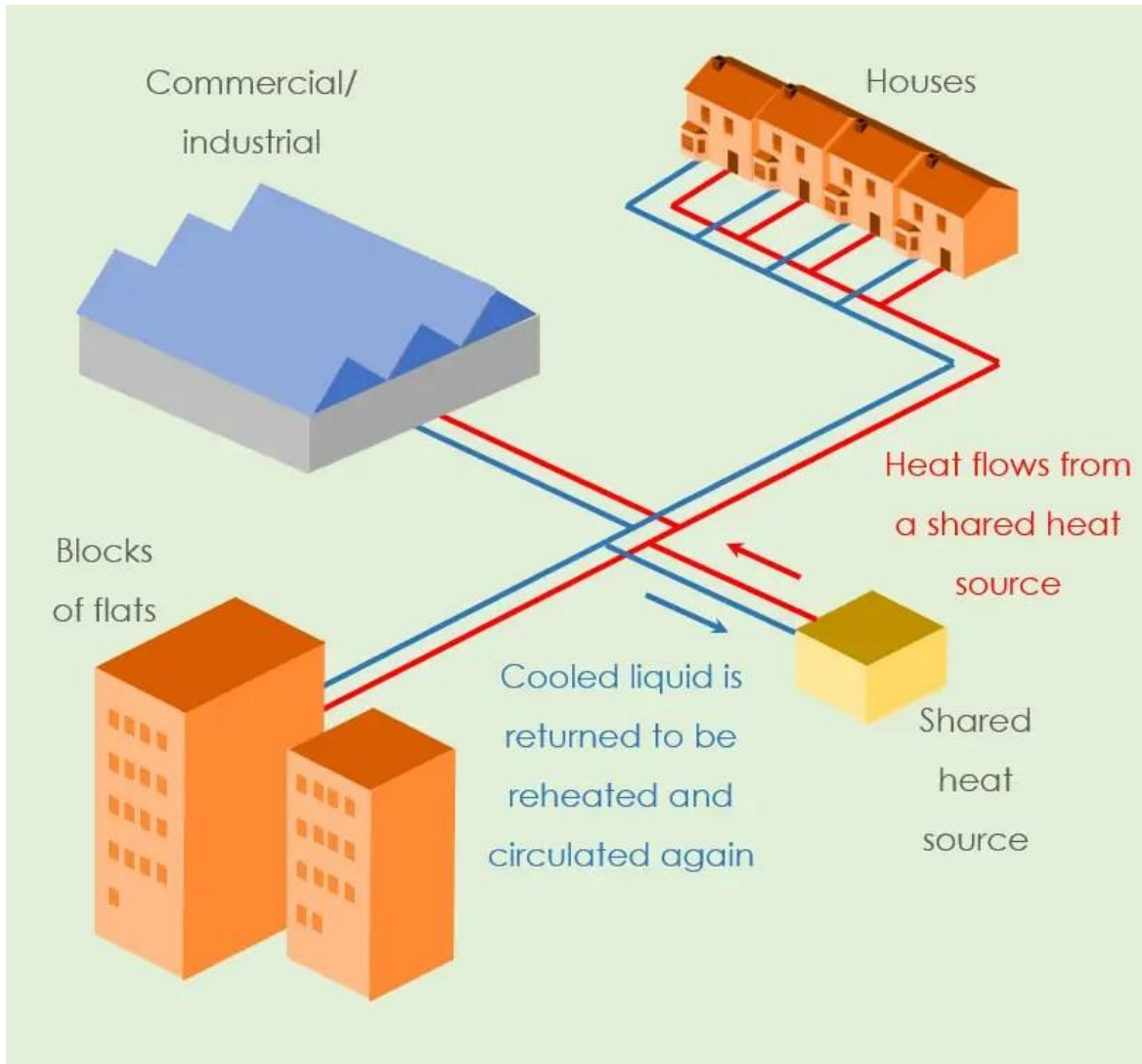


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Heat Networks

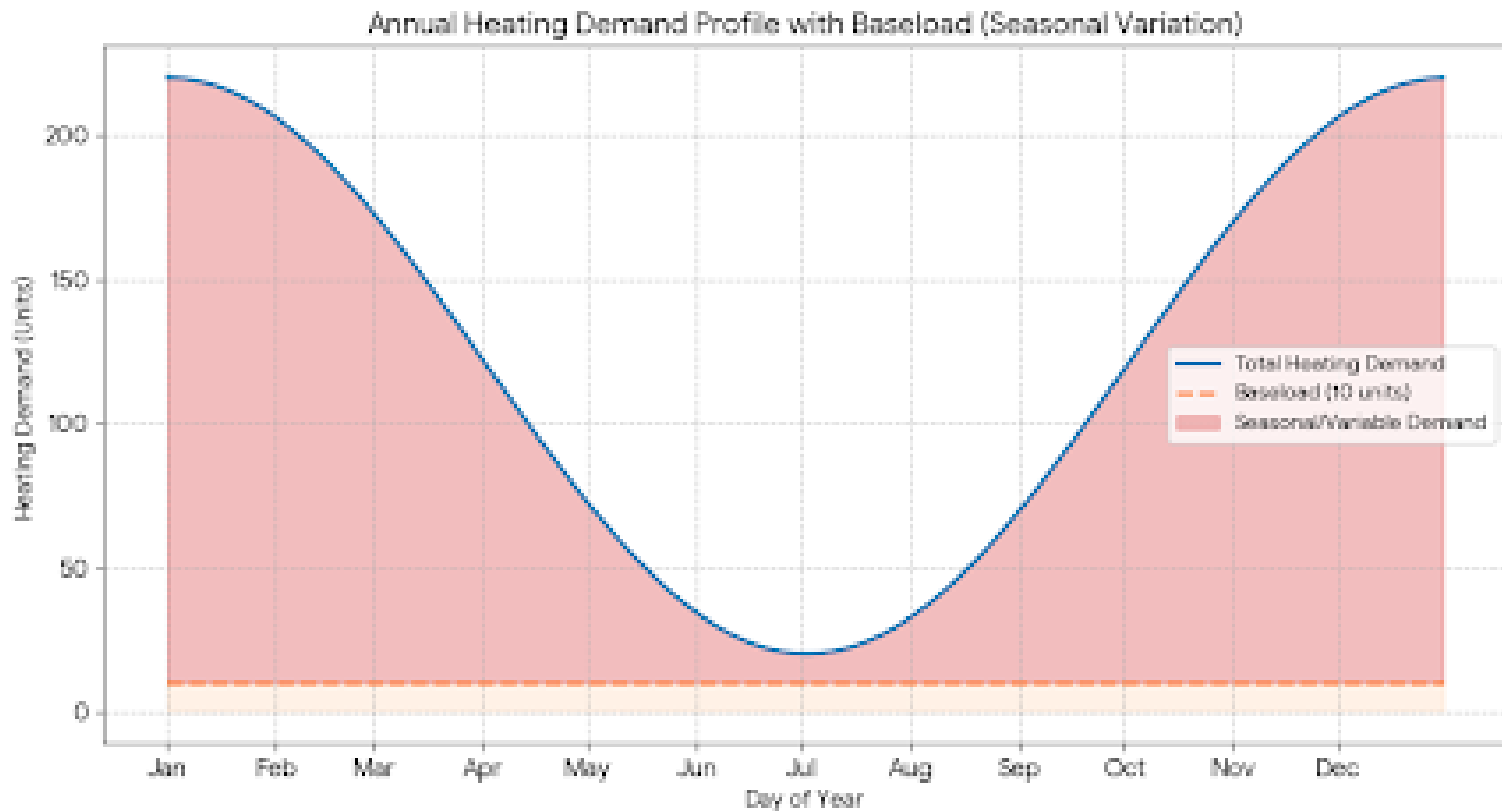
- Baseloads
- Identifying Demand
- Engaging Potential Customers



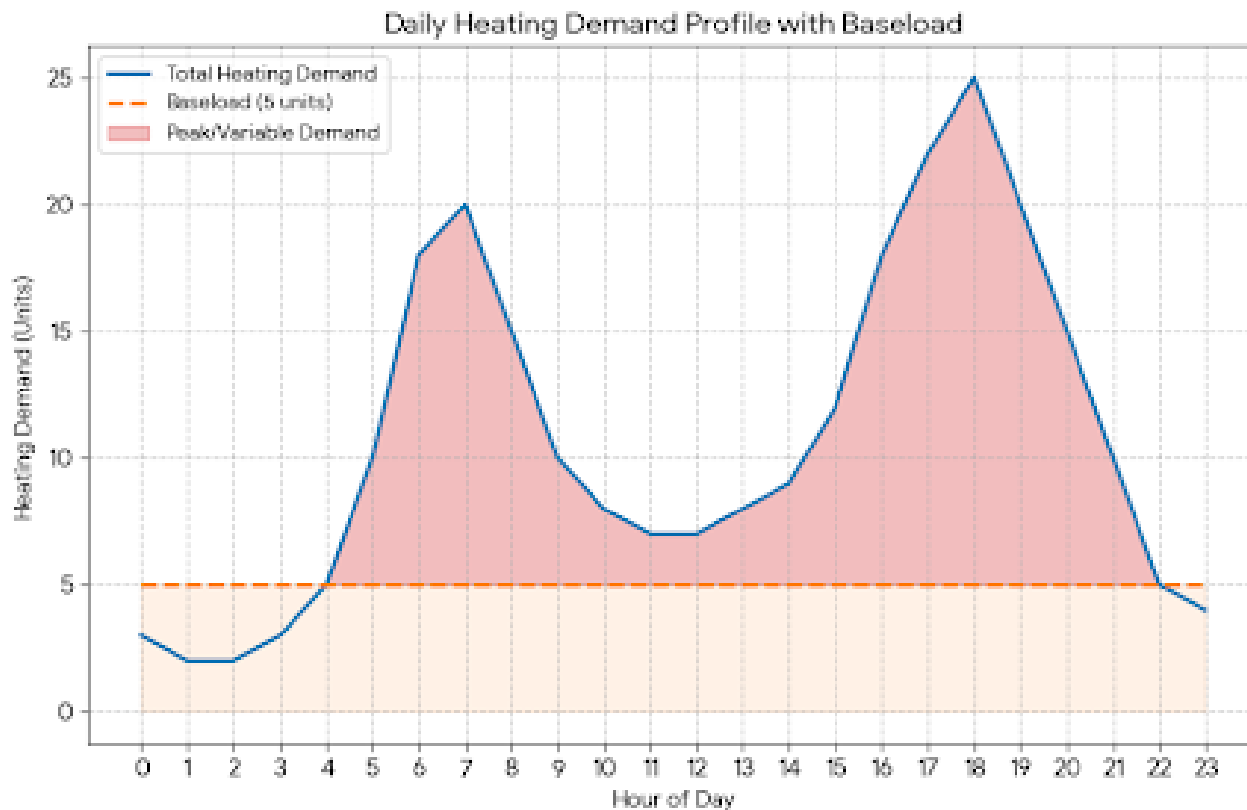
Baseload

What is it?

Why is it important?



Annual Demand



Daily Demand

- 1. Efficient System Design**
- 2. Economic Optimisation**
- 3. Carbon and Energy Efficiency**
- 4. System Reliability and Stability**
- 5. Peak Load Management**
- 6. Network Expansion Planning**

Anchor Load

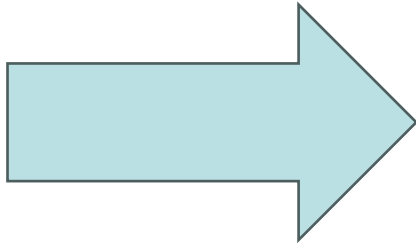
Type	Why They're Good
Hospital	Large, year-round heat demand, long-term stability
University	Continuous operation, high DHW and heating demand, potential expansion
Swimming pool / Leisure Centre	High, steady heat demand even in summer
Industrial plant	Process heating, high annual load factor
Large residential estate	Predictable heating demand, potential for network expansion

CIBSE CP1

Heat networks: Code of Practice for the UK (2020)



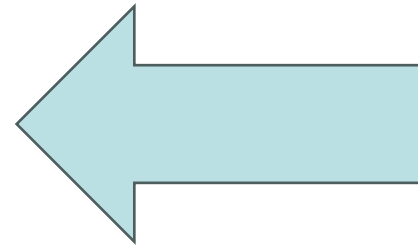
Stakeholder Engagement



Obtaining Energy Data
Review of Energy Tariffs
Review of Existing Installed Systems

Proposals for Connection

- Technical Implications
- CAPEX & OPEX Analysis
- Carbon Emission Savings



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