

Local Heat & Energy Efficiency Strategies – Opportunities for Heat System Decarbonisation

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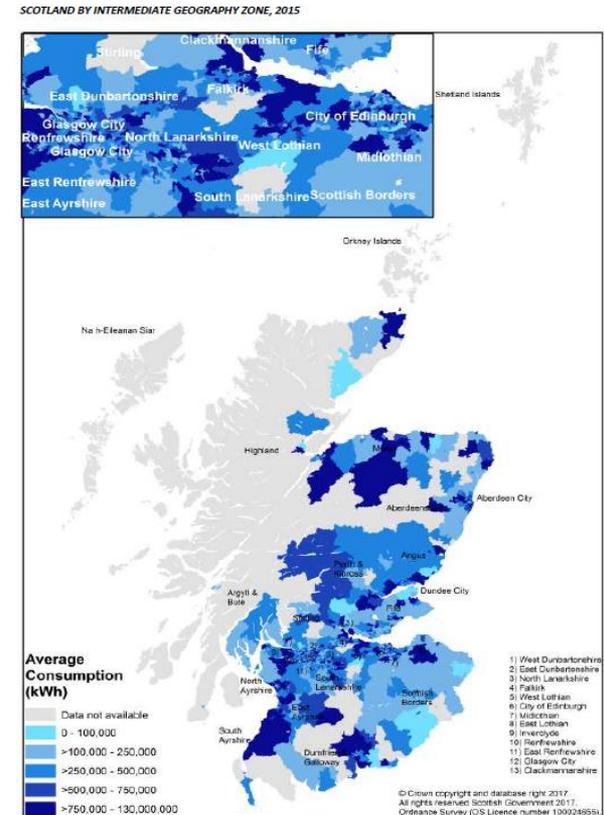
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Heat in Scotland

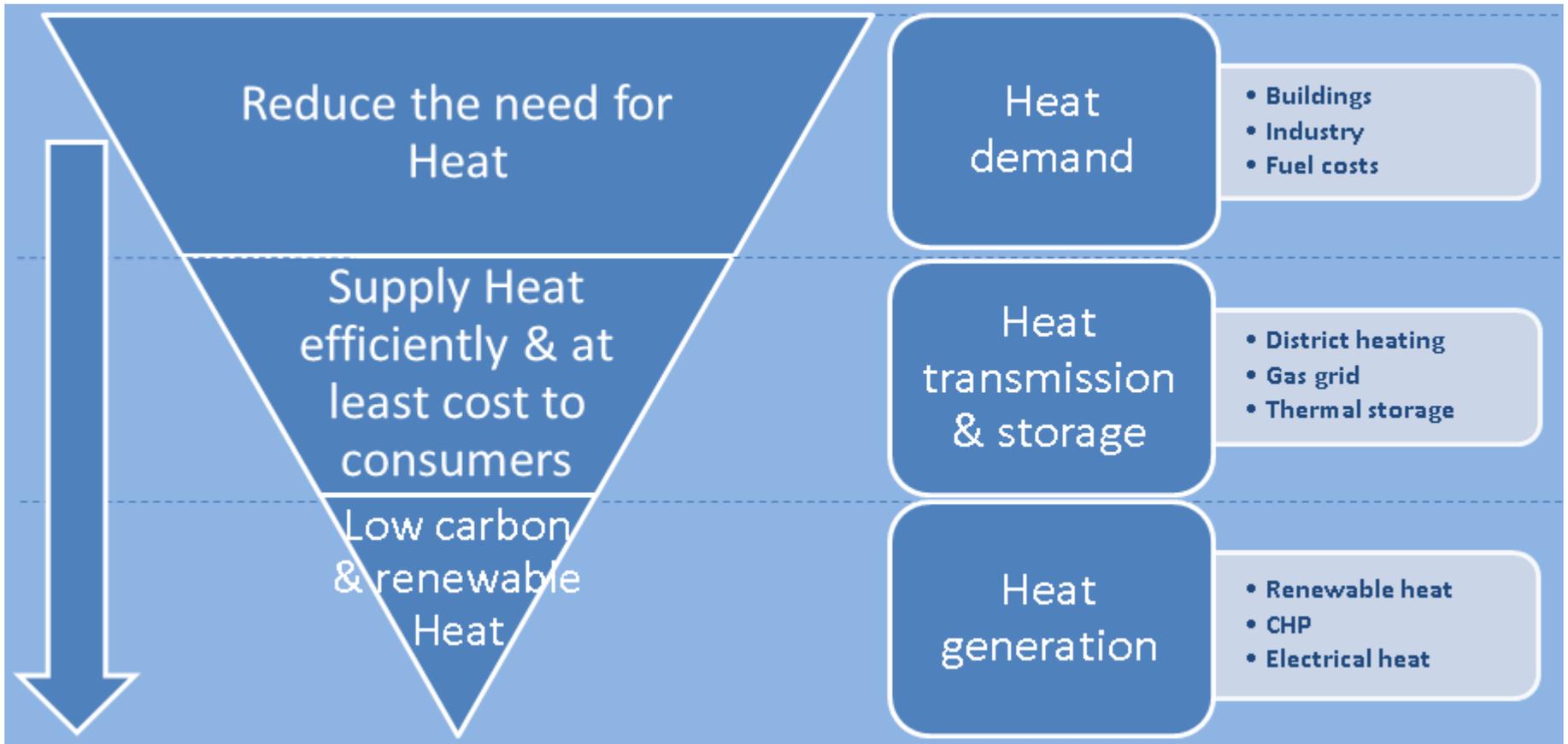
In Scotland

- 79% of our domestic properties heated by gas
- 7% heated by oil
- Commercial & Industrial use 40% of gas consumed
- Draft Climate Change Plan presents massive decarbonisation challenge
 - 98% emissions reduction for non-domestic buildings; 75% emissions reduction for domestic buildings, by 2032
 - 94% of non-domestic buildings' heat; 80% of domestic buildings' heat, from low carbon sources, by 2032
- Split of responsibilities – UK Government - electricity, gas network, the Scottish Government (SG) - heat.
 - UKG – exploring the potential use of hydrogen gas for heating until 2020
 - SG heat decarbonisation activity – focus on low regrets options

FIGURE 4.14: NON-DOMESTIC GAS CONSUMPTION - Average Consumption (kWh per meter)



Heat Policy Statement – the Heat Hierarchy



Heat decarbonisation so far...

- **Heat supply is diversifying:**
 - **Share of renewable heat is rising (3.8% in 2014, 5.3-5.6% in 2015)**
 - **Electrical heat is growing in non-domestic sector (currently over 50%)**
 - **District and communal heating is rising (25,800 homes connected)**
- **But gas remains our primary fuel...**



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Why are we here today?

- Draft Scottish Energy Strategy
 - Whole system view
 - A Stable managed energy transition
 - A Smarter model of local energy provision
- Scotland's Energy Efficiency programme
- Consultation on Local Heat and Energy Efficiency Strategies (LHEES) & District Heating Regulation



LHEES - Pilot and Capacity Building Programme

- 12 Local Authorities funded to test LHEES concept
- 9 Local Authorities taking part in joint procurement activity for technical consultancy support
- Support provided from existing national programmes (RES/SFT/EST)
- Evaluation of pilot studies to understand:
 - Required skills and resources
 - Activities and processes
 - Technical requirements (e.g. data, tools etc.)
- Series of events throughout 2018 – knowledge sharing, feedback, learning from experts



- Mix of opportunities for heat system decarbonisation
 - District Heating
 - Electrification of Heat
 - Decarbonising the gas network



Timing	Item	Time
45	Registration/lunch	12:00-12:45
10	Introduction - Craig Frew	12:45-12:55
20	Policy/Background - Scott Brady & Ross Loveridge	12:55-13:15
35	Managing Heat Decarbonisation - Keith MacLean	13:15-13:50
35	District Heating - Dave Hawkey	13:50-14:25
15	Tea/Coffee Break	14:25-14:40
35	Electrification of Heat - Dina Darshini	14:40-15:15
35	Hydrogen Heat Decarbonisation - Matt Hindle	15:15-15:50
30	Panel discussion - Chaired by Keith MacLean	15:50-16:20
10	Closing remarks - Craig Frew	16:20-16:30



Housekeeping

