



ISLINGTON

Planning for Energy

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Overview

- What are the key considerations when evaluating energy strategies?
- Examples
- Emerging policy
- Decentralised energy for Islington



Energy Hierarchy

- **Be Lean** – Minimise energy demand by maximising energy efficiency



- **Be Clean** – Efficient supply of energy



- **Be Green** – LZC technology

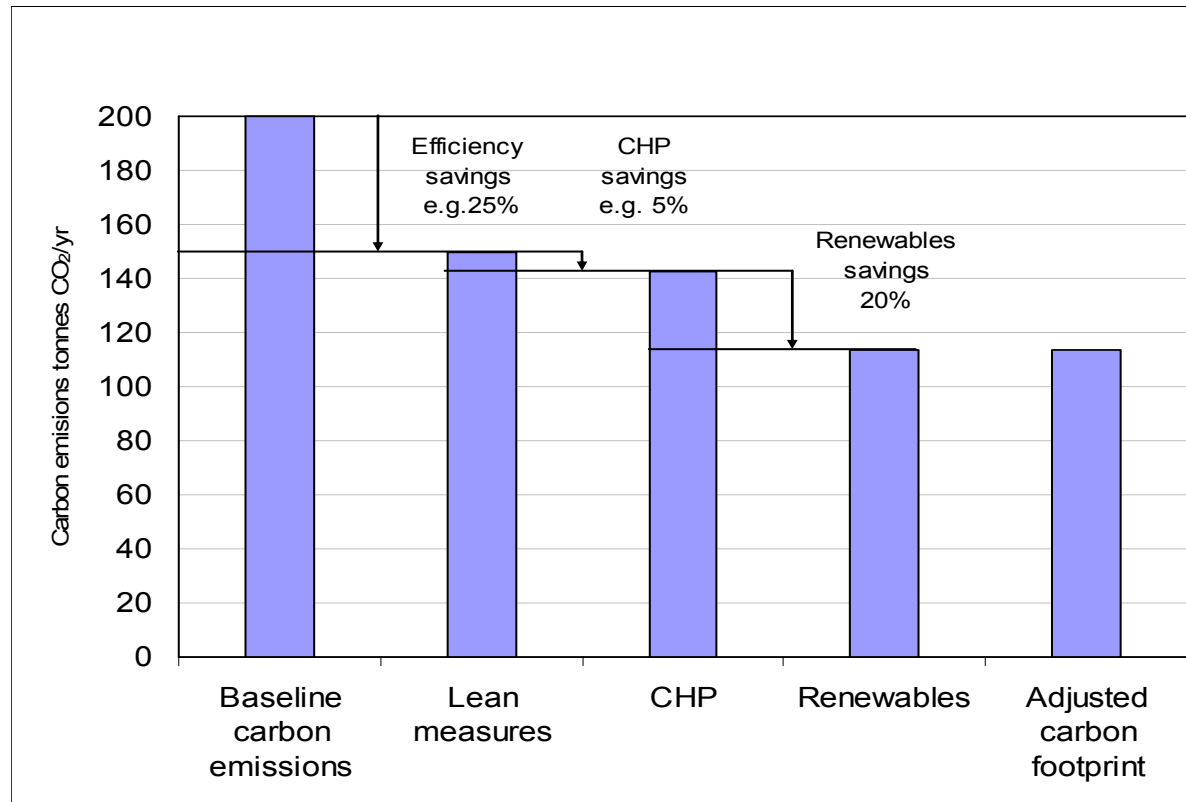


Heating Hierarchy

- Connection to existing CCHP/CHP distribution networks
- Site-wide CCHP/CHP powered by renewable energy
- Gas-fired CCHP/CHP accompanied by renewable energy
- Communal heating and cooling fuelled by renewable sources of energy
- Gas fired communal heating and cooling



Energy Strategy



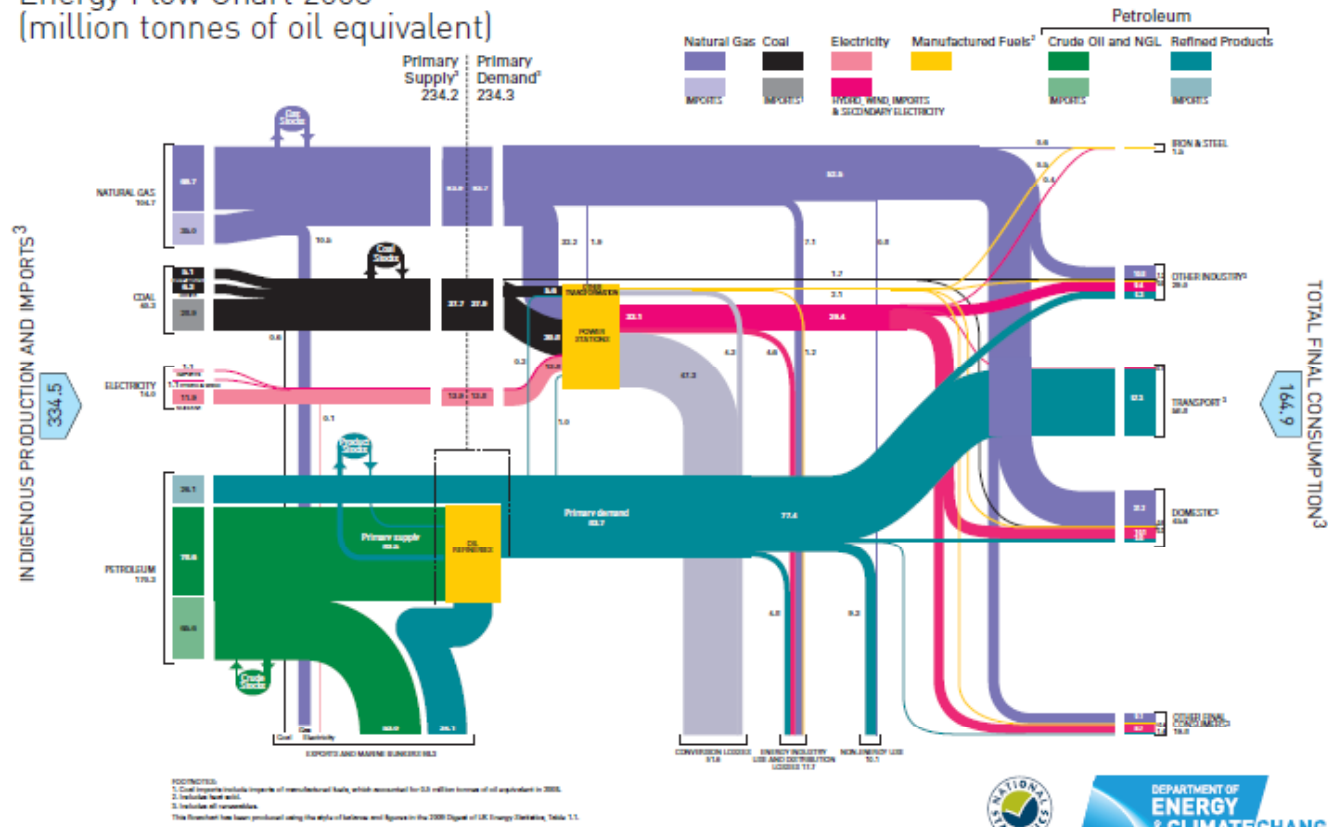
Emerging Policy – Sustainable Design

- All development should achieve an on-site reduction in total (regulated and unregulated) CO₂ emissions of at least **40%** against a 2006 part L compliant building
- Where connection to a decentralised energy network is possible this increases to **50%**
- A requirement to offset all remaining CO₂ emissions associated with the building through a financial contribution towards measures which reduce CO₂ emissions from the existing building stock



Decentralised Energy

Energy Flow Chart 2008
(million tonnes of oil equivalent)



Borough-wide strategy

- Initial clusters combined into corridors
- CO₂ savings from all local clusters independently 28,000 tonnes CO₂
- CO₂ savings if clusters linked together 36,000 tonnes CO₂
- CO₂ savings if all LBI housing included 100,000 tonnes CO₂



Summary

- Energy and heating hierarchy
- Ability to connect to a future local heat network
- Emerging policy: 40% reduction in total CO₂ emissions versus baseline or 50% where a decentralised energy connection is feasible
- Developing Islington decentralised energy network, starting with the Southern cluster

