Fulcrum Consulting

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Zero Carbon Creating a business Case

• Why
• What needs to happen by when
• Does Zero Carbon help
The problem of existing building stock

- At a conventional rate of building replacement in the UK, it would take hundreds of years to replace all buildings with those that meet stringent new Building Regulations introduced in 2006.

- The targets for major reductions in emissions are in the 30 to 40 year range at present, and may get shorter if global warming effects become more marked.

- The option of overcladding would be suitable for many buildings, but many of our cities are defined by their architecture and overcladding would destroy the heritage.
• A3 poster (to be displayed publicly)
• Building type
• Current rating
  ▪ Value shown against standard graphic
• Progress over last 3 years
• Administrative information as before
• Reference to Advisory Report
• Reference to report containing additional technical details
Fulcrum Dream Definition

1. Energy Efficiency
2. Carbon Compliance
3. Community Energy Fund

*Zero Carbon* hierarchy
So what should we do

- Start building a heat infrastructure
- Find ways of funding community energy centres
- Seek ways to engage energy companies with property companies
- Investigate how non domestic development might benefit existing housing
Interseasonal Heat Transfer

Rejected surplus in winter

Reject surplus in summer

Warm Store

Cool Store

Heat Pump Warming

Cooling Building
Aquifer Thermal Energy Storage ATES
City sized ring mains
Thank you