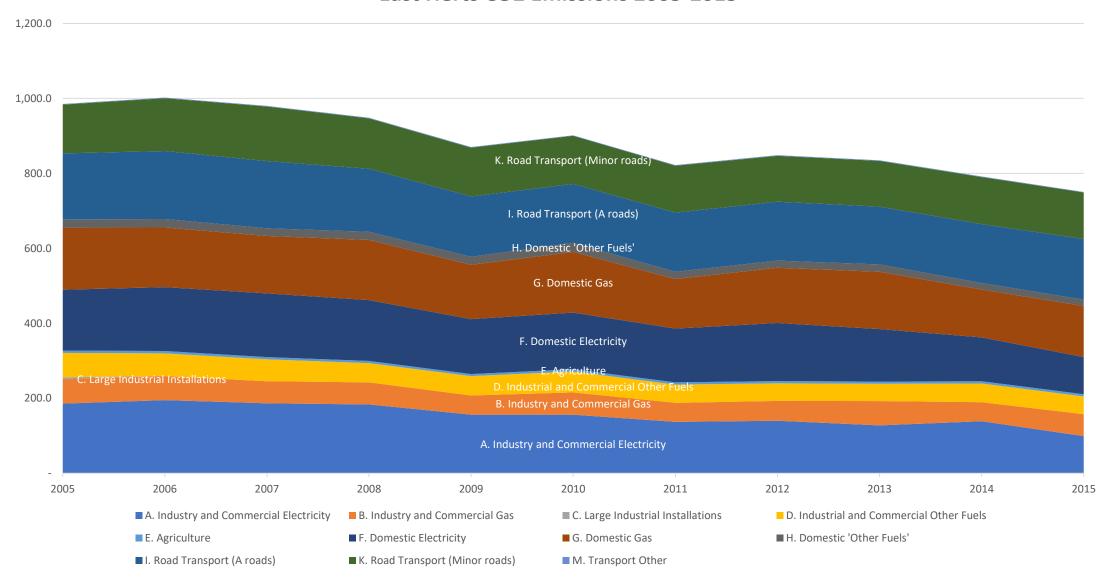


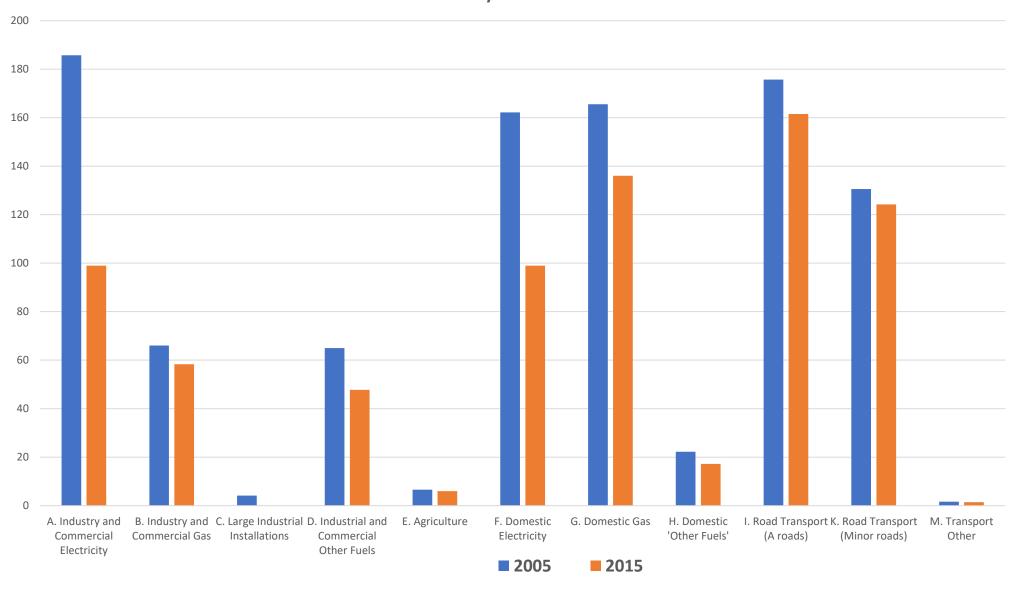
Bishops Stortford Climate Group

Presentation to Task and Finish Group

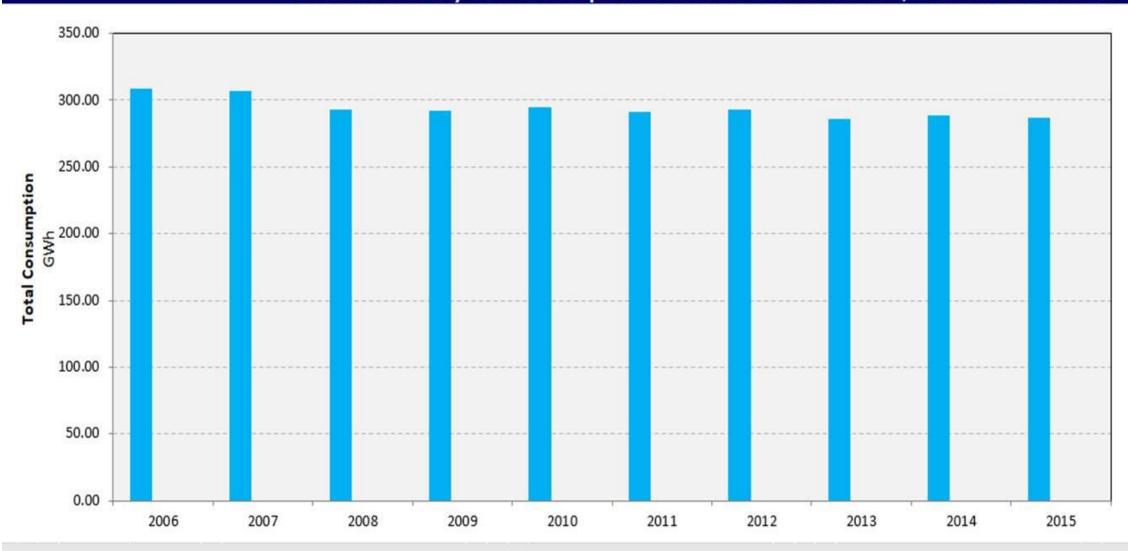
East Herts CO2 Emissions 2005-2015



East Herts CO2 Emissions by Sector & Fuel for 2005 and 2015



Domestic Electricity Total Consumption Value for East Hertfordshire , between 2006 and 2015



East Herts CO2 Reduction Progress

- Good progress on carbon reduction but...
- Largely because of decarbonisation of electricity generation nationally
- Heating and transport less significant progress

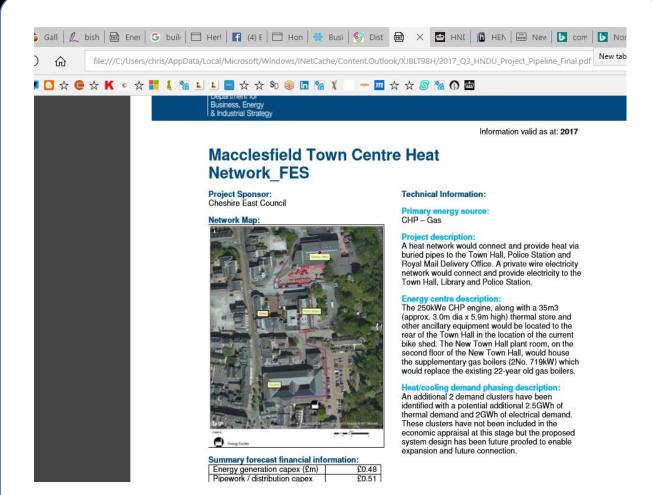
How do we decarbonise heat and transport?

- Electrification the obvious choice but
- Can the electricity distribution network cope?
- What is EHDC's role?



Heat

- District heating for Bishops Stortford?
- General approach is to establish initial scheme based on "anchor loads" eg newbuild, public buildings, leisure centres etc
- And expand from there
- Govt funding for district heating feasibility studies
- Next deadline 31st Jan 2018



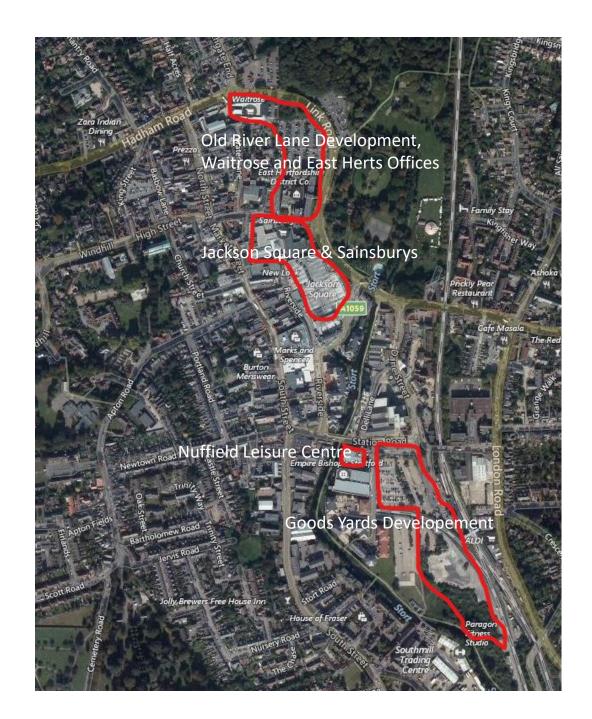
Recipients of Heat Network funding

Heat Networks Delivery Unit (HNDU) Successful local authorities	Round 1	Round 2	City Deal	Round 3	Round 4	Round 5	Round 6	Round 7
Successial local authorities	MOUNG 1	Nouna 2	Projects	Nouna 5	Nouna 4	Kuuliu 5	Noullia 6	Round 7 is an open funding round,
			Projects					running from 05 January 2017 to 31
								December 2017, BEIS will look to
								publish individual Round 7 grant
								funding amounts on a future date.
								remains amounts on a rectar coace.
Allerdale Borough Council		£101,700					£63,750	
Barnsley Borough Council		£36,850						
Basingstoke and Deane Council							£40,200	
Bath & North East Somerset Council		£95,000			£20,100			
Birmingham City Council	£120,600				£139,360		£92,460	
Bisensu Gwent County Borough Council		£103,850						
Bolton Metropolitan Borough Council					£36,850		£67,000	
Bournemouth Borough Council					£81,494			
Bradford Metropolitan Council	£65,666						£50,000	
Bridgend County Borough Council		£26,800			£26,800	£67,000	£83,750	
Brighton and Hove City Council	£130,650			£53,600		£67,000		
Bristol City Council							£541,050	
Bromsgrove District Council					£40,000			
Buckinghamshire County Council					£30,150			
Bury Metropolitan Borough Council				£44,000				
Calderdale Council					£46,900			
Cardiff Council	£245,000							
Ceredigion County Council					£30,000			
Cherwell District Council	£83,080					£50,250		
Cheshire East Borough Council	£198,000				£36,930	£40,200	£123,950	
Cheshire West and Chester Council				£214,400			£100,500	
City & County of Swansea	£26,800				£50,250			
City of Westminster		£90,200			£67,500	£54,000		
City of York Council		£90,450						
Colchester Borough Council				£10,050	£16,750	£40,200		
Copeland Borough Council		£123,470	1				540 300	
Corby Borough Council Cornwall Council		£13.330		540.000	£30.150		£40,200	
Coventry City Council		£13,33U	1	£10,050	£30,150		£28,810	
	540,700				£26,800		£28,810 £53.600	
Crawley Borough Council Derbyshire County Council	£40,200				126,800		£53,600 £55.275	1
Deroyshire County Council Devon County Council		£184.250			£73.700	£26.800	£50,275 £60,000	
Doncaster Metropolitan Borough Council	£26.800	2104,230	1		2/3,/00	220,000	200,000	1
Dudley Metropolitan Borough	220,000				£92,460			l
Durham County Council				£77,050	132,400			
East Hampshire District Council				277,000	£70,350		£67,000	
East Riding of Yorkshire Council		£232,490			270,530		267,000	
Eastbourne Council		2232,450	1	£44.890			£32,500	
Eastleigh Borough Council				£57.921			232,300	
Eden District Council				227,321	£60.300		£50,000	
Exeter City Council					200,000		£33,500	
	1	I	I	1	£30.150		222,200	I



Heating & Cooling Anchor Loads

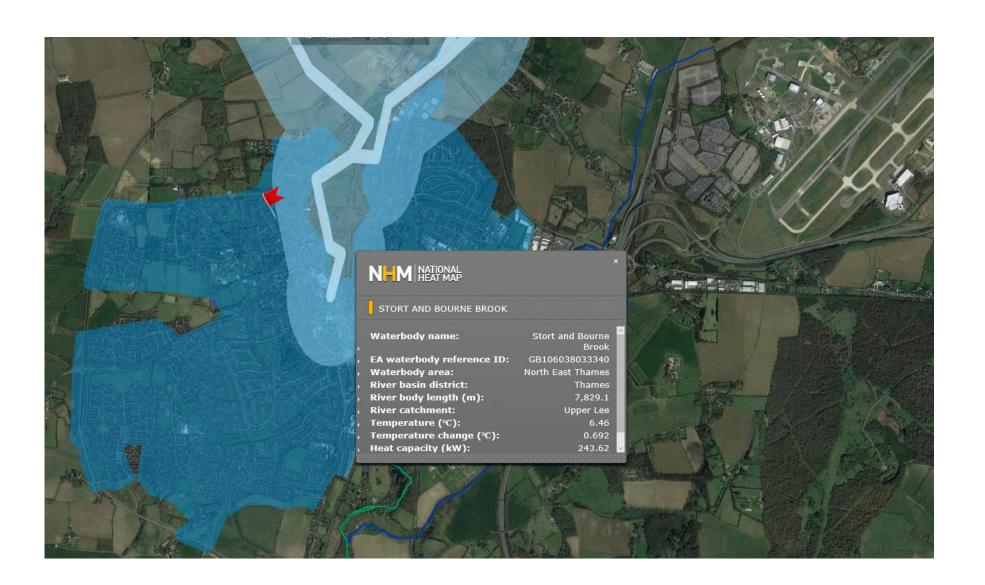




Heat (& Cooling) Sources

- Gas CHP
- Heat pumps utilizing:
 - Stort
 - Boreholes
 - Sewage treatment





Bishops Stortford: Ideal Borehole Location

Geological Survey

MCk

British Geological Survey

British Geological Survey

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222/279 Messrs. Ecnskins Watford Brewery Ltd., The Maltings, Dell Lane, Bishop's Stortford. (Disused)
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Surface +189. Shaft 18 × 6; rest bore. Lining tubes: 178 × 8 in from surface;

37 × 6 in from 178 downsolog Water struck at -121. R.W.L. +178. Venison, Feb. 1953.

R.W.L. +1824. P.W.L. +1694 (after 6 h.). Yield 4,800 g.p.h. Electric pump.

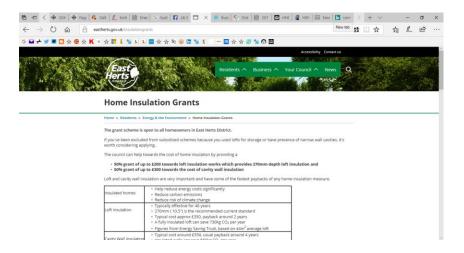
Hardness: P. O. T. 255. Anal. Mar. 1953.

Sand and Gravel (Buried channel) ... 203 203

UCk )
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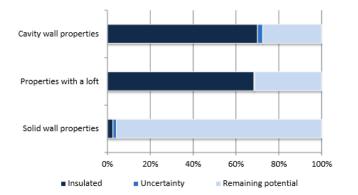
Domestic Retrofit Insulation/Home Improvement

- Take up of existing scheme against need?
- Maximisation of ECO funding
- How many properties left to insulate?



.......

Figure 6: Remaining potential to insulate the housing stock in Great Britain, July 2013



Solar for Schools

- HEN Model in Stortford or alternative models for existing schools?
- Stortford North Schools Secondary and primary
- Stortford South Boys High redevelopment
- Herts and Essex Sports Centre





Commercial Sector

- Proposed bid to European Regional Development Fund
- Demonstrating carbon savings to small businesses
- What's the progress on this proposal?
- And could this fit with a district energy network approach?



Conclusion

- Heat and cooling network feasibility based around new development anchor loads – Bid to HNDU
- Rollout to existing buildings where feasible
- Marketing push to target insulation of remaining cavities and lofts unfilled
- Finance solar for schools programme
- Commercial sector bid to EDRF