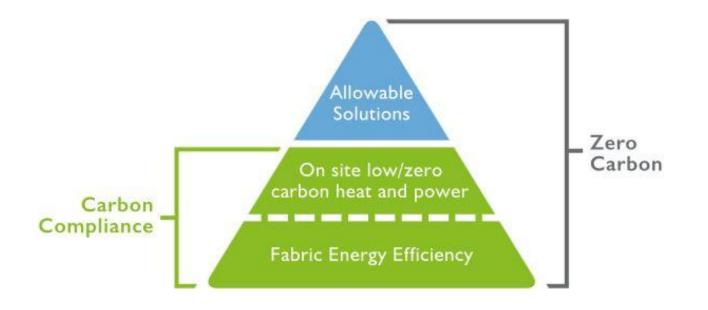
How will the Government's policy for new homes to be zero carbon from 2016 affect residential development?

Some Comments from a Developer

Steve Harper Group M&E Services Manager Galliard Homes Ltd.



Uncertainty!





Lessons Learnt

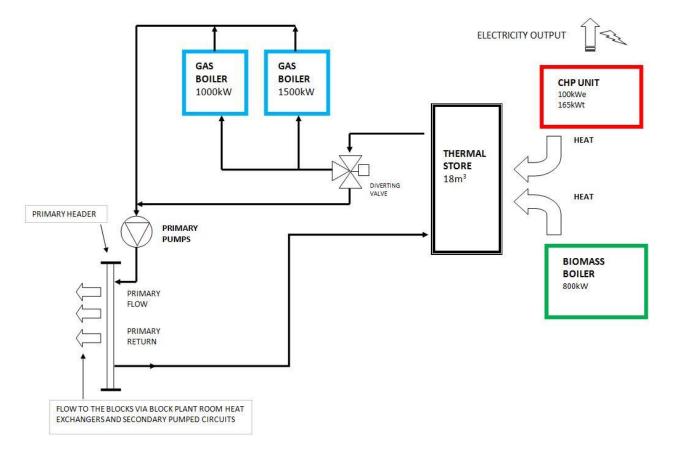
• LEAN use less energy

• MEAN use energy efficiently

• GREEN - use lower carbon emitting options



Technical detail on systems





Biomass???







Community Heating Network Losses

OPTIONS ON INCREASING INSULATION LEVELS

FROM EXISTING INSULATION STANDARDS

Calculated using Wm-1	From the various Standards	NETWORK LOSS kWh/ Annum	% REDUCTION IN kWh HEAT LOSS	
PART L 2006		144416	0	
ECA & Y50 ENHANCED		130174	10	%
EN253 SERIES 1		120256	17	%
EN253 SERIES 2		105171	27	%
EN253 SERIES 3		89492	38	%



On-site - Measures

'even where on-site measures may be technically feasible, they can be expensive and may not be cost effective in comparison with off-site carbon abatement measures'

DCLG Next steps to zero carbon homes – Allowable Solutions Impact Assessment – August 2013



Menu - Allowable Solutions

- 1. 100% of AS carbon abatement on site
- 2. Off-site carbon abatement the developer 'do-ityourself' option
- 3. Contract with a third party Allowable Solutions provider (including Local Authority)
- 4. Making a payment which is directed to a fund which then invests in projects which will deliver carbon abatement on their behalf



Legislation

Section 37 of the Infrastructure Act 2015 to provide powers in the Building Act to enable Building Regulations to be made covering offsite carbon abatement measures



Governance + Validation + Verification

- Carbon Pricing
- AS Really a worthy option? it needs more time to configure the mechanisms??
- Impact assessment side-steps a lot of issues
- Certification provided to Building control approved inspectors?



Summary

- 1. Marketing LZC homes- no benefits
- 2. High-rise apartments technical solutions and targets are unclear
- 3. AS National Framework
- 4. Small sites exemption
- 5. Is AS a 'tax and spend' measure?
- 6. One in/ Two out for Business Regulation

