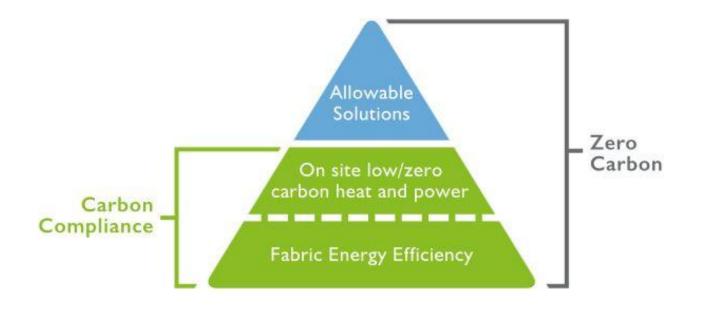
# How will the Government's policy for new homes to be zero carbon from 2016 affect residential development?

Some Comments from a Developer

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



## Uncertainty!





### Lessons Learnt

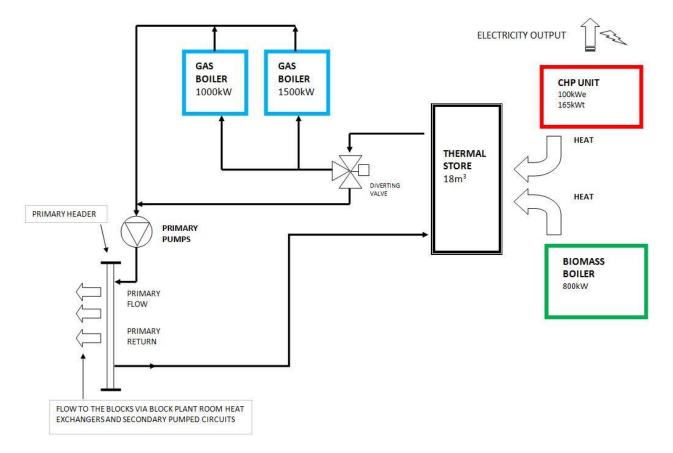
• LEAN use less energy

• 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

