







Hanham Hall BedZED

Jubilee Wharf, Penryn Bill Dunster Architects

Dongtan

Greenhouse



"This house proposes that investment should be diverting from achieving carbon neutral new homes to the existing stock"

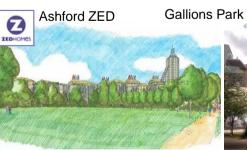
Chris Twinn: Opposing the motion



Earth Centre Conference Building

Lighthouse

BowZED ZEDfactory



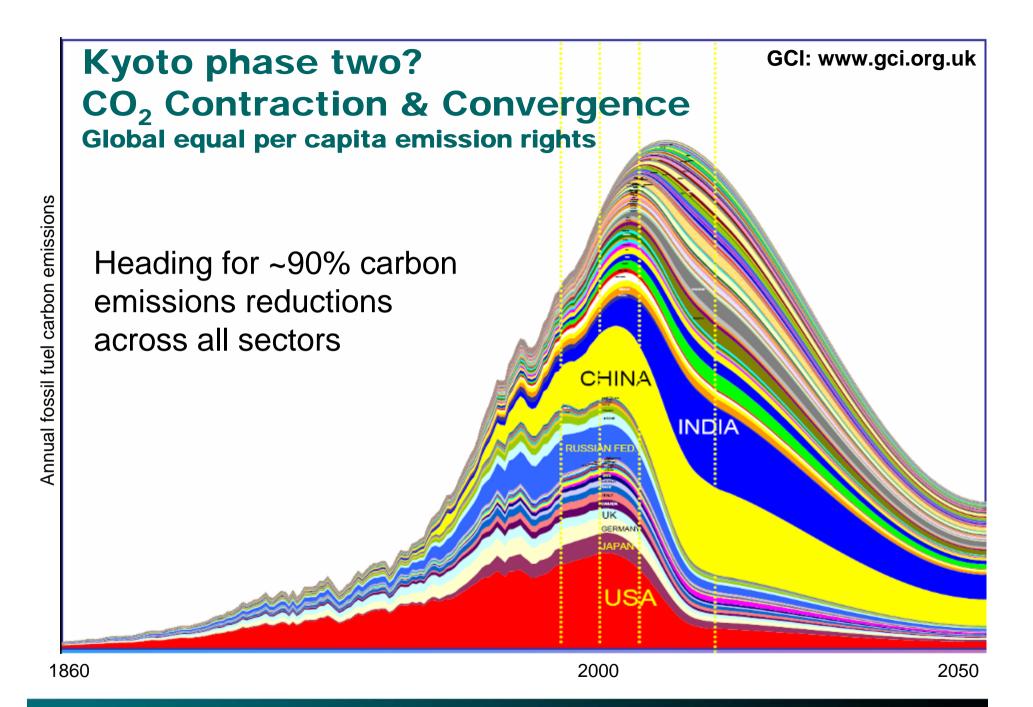


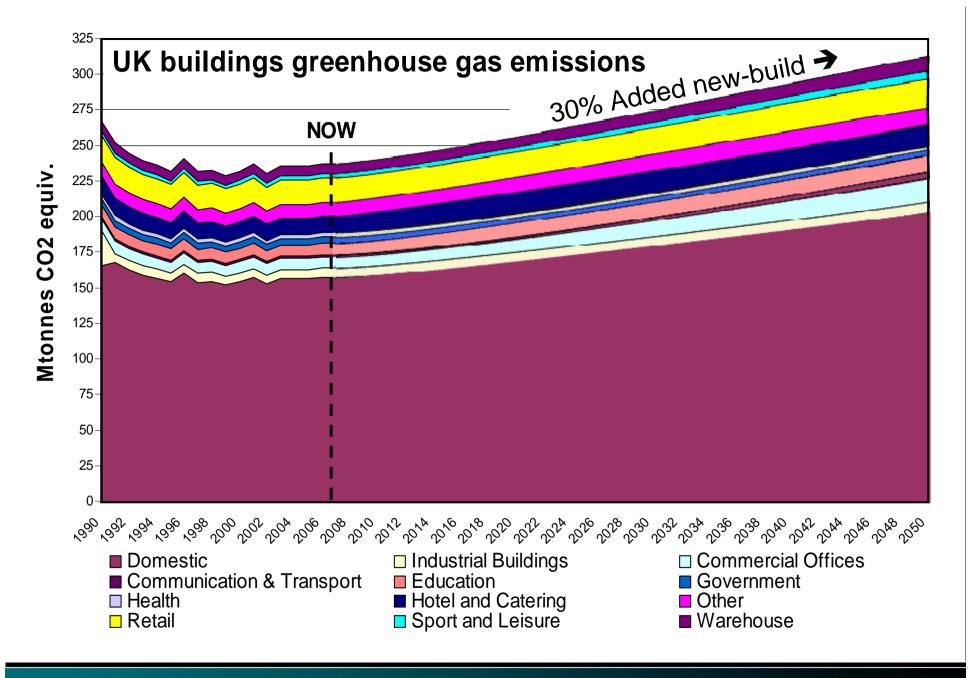


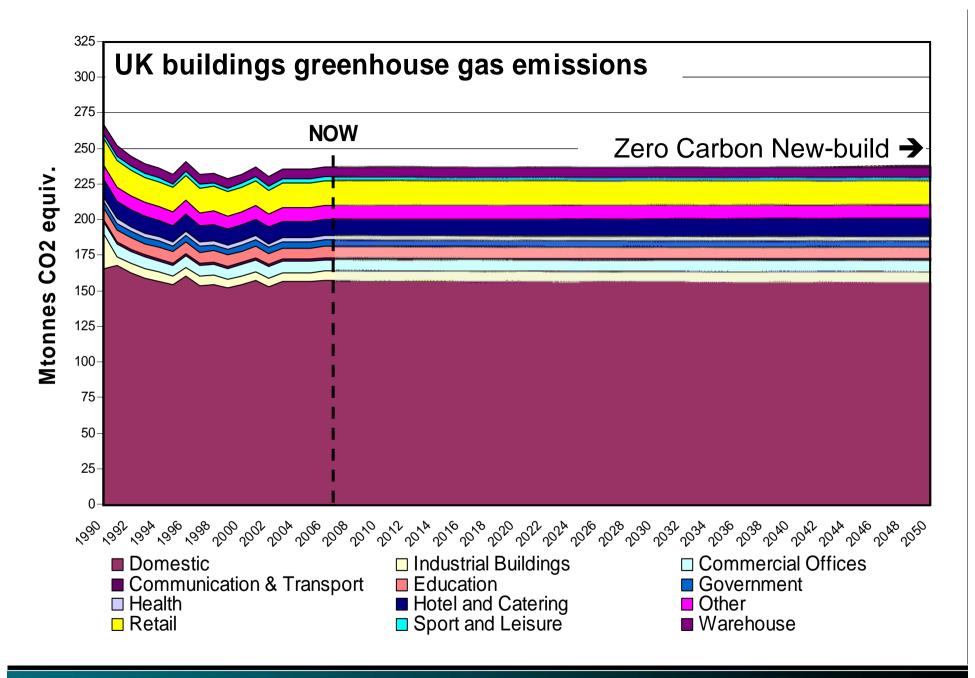


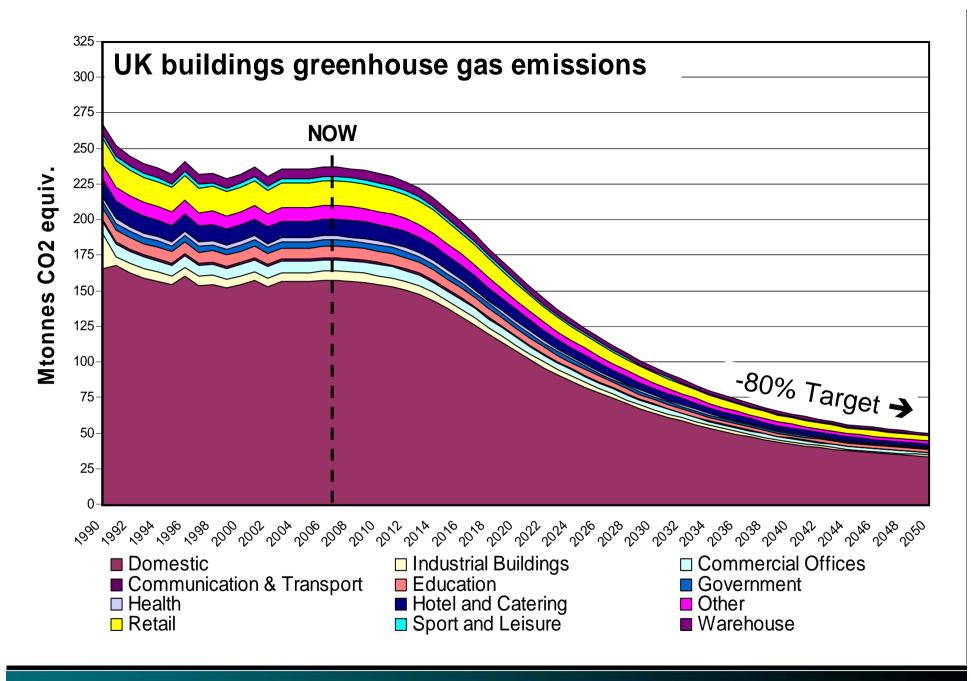












Some numbers - So how much is diverted?

150,000/yr (?) new-build homes:

- Average build cost per home, say = £100k
- Zero carbon funding per home = ~ 5%
- Total capital available = £750m

To be divided between 22m existing homes:

- If ALL new-build funding diverted
 - = ONLY £45/home!

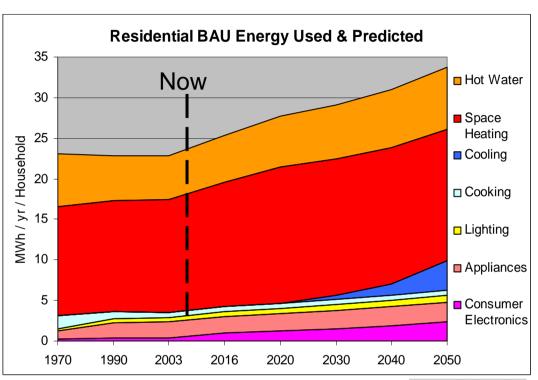
CERT (ex-EEC) £900m = £41/home

More effective to reduce 17.5% VAT on refurb....?



Existing stock investment: Rebound effects

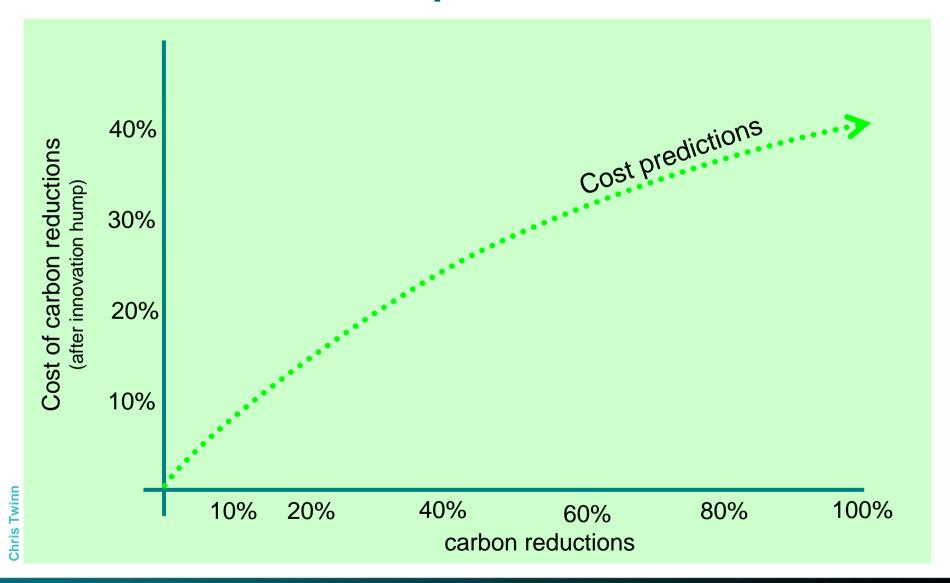
- More heating used despite better insulation
- Domestic appliances multiplying:
 - more home electronics,
 - bigger appliances,
 - · security systems & lighting,
 - mechanical ventilation,
 - electric towel rails,
 - heated mirrors,
 - DHW pumps,
 - •
- Lower bills → buy more appliances



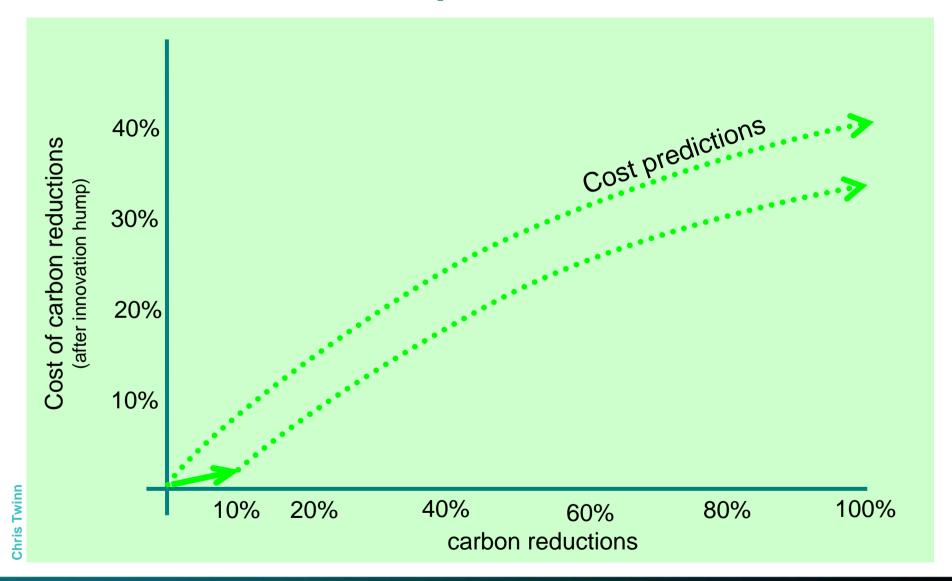




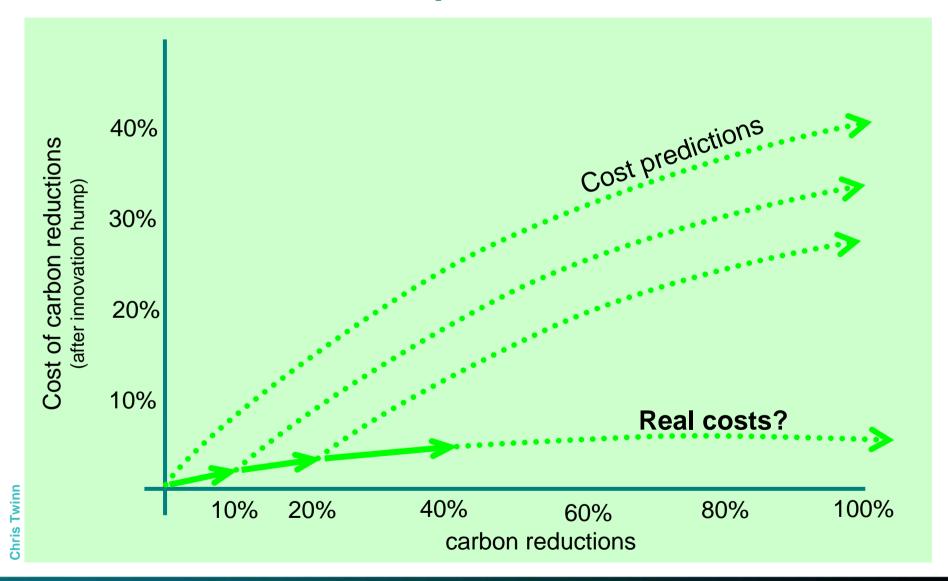
Is Zero carbon so expensive?



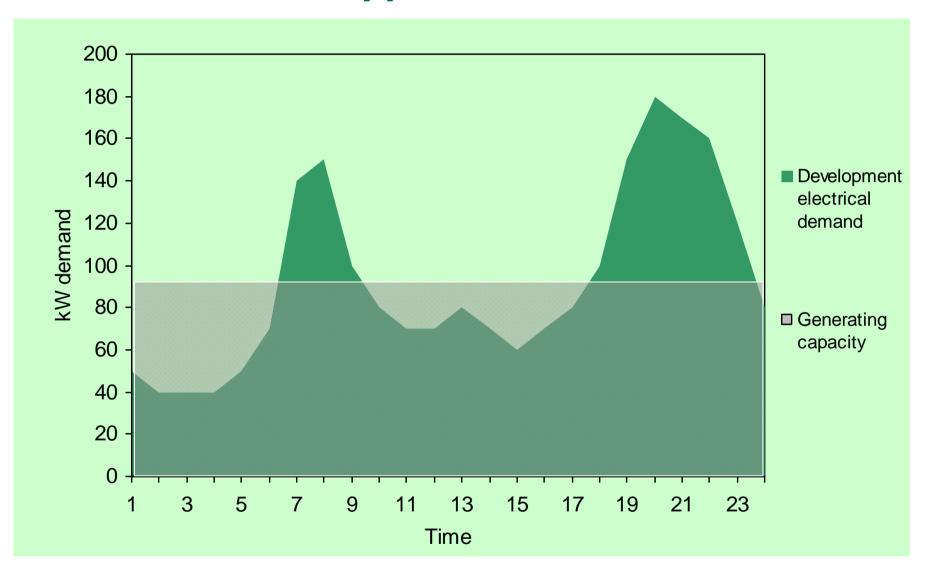
Is Zero carbon so expensive?



Is Zero carbon so expensive?



Is the 80/20 rule applicable to net zero carbon?

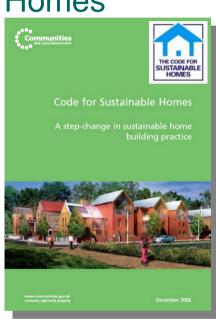


UK Pathway to Zero Carbon

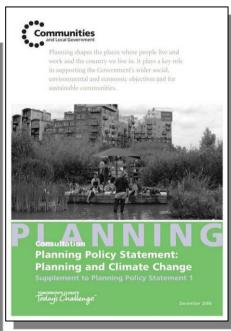
Communities

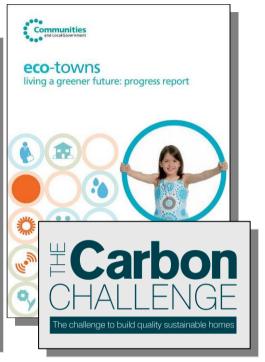
Pathfinders

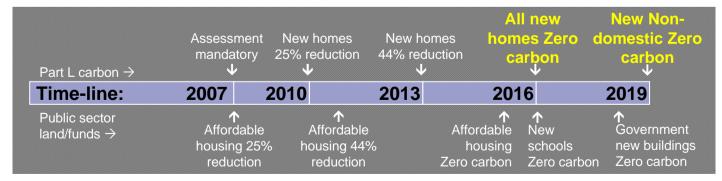


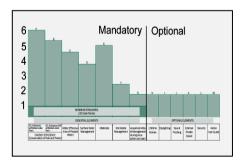














Investment should NOT be diverting from achieving carbon neutral new homes

- 1. For 80% emissions reduction, new-build must not add to emissions
- 2. New-build gives more 'Bang for your buck'
- 3. Existing stock needs lifestyle engagement before it can deliver
- 4. 'Net zero' mean 80/20 rule inappropriate
- 5. VAT reform is more appropriate measure for existing
- 6. Must not stop the current momentum



