The Carbon Challenge





Jayne Lomas English Partnerships

English Partnerships



- Environmental Track Record
- Exemplar programmes
- Millennium Communities
- Design for Manufacture
- Carbon Challenge

Greenwich

Millennium Communities



- Eco-homes Excellent
- 20% reduction in metered energy
- 20% reduction in water consumption
- 10% increase in daylighting
- Reduction in construction waste
- Lower defects
- Lifetime Homes
- IT enabled and homeworking space

Greenwich

Allerton Bywater

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Allerton Bywater

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Summit House





Urban Summit 2005

Allerton Bywater, Leeds 2006



New Islington

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CONTRACTO OF Hastings 0

Oakgrove, Milton Keynes

Design for Manufacture



- Construction cost £784 sq m
- Deliver quality
- Density with houses, not just flats
- Lifetime Homes achieved via detailed drawings
- One thousand and one house types
- Innovation requires integrated project and supply chain
- New players welcome
- Future proof flexible and expandable, room in the roof
- Place and product must work together
- Requires vision and leadership from the top

Design For Manufacture, Taylor Wimpey & Rogers Stirk Harbour Oxley Park, Milton Keynes



Design for Manufacture Crest Nicholson, Merton

EP Quality Standards





Policy Guidance

English Partnerships' Quality Standards Delivering Quality Places Revised: from November 2007



Quality Places

Design statements – creating well-laid out and distinct communities

Building for Life Silver (or Gold) – the CABE quality standard

Inclusive design – design of homes for people with a range of physical abilities

Secured by Design – safe and overlooked streets and public spaces

Integration of tenure - creating mixed communities

Car parking - accommodating the car but not letting it dominate

Quality Homes and Buildings

Code for Sustainable Homes Level 3 minimum – tackling climate change and improving environmental quality

BREEAM – Very Good minimum environmental standard for non-residential buildings

Lifetime Homes – flexible, adaptable homes for people of all ages and physical abilities

Noise - reducing noise impact between and within homes

Building specifications – using more environmentally friendly building products – only Category A, B or C products in BRE's Green Guide to Building Specifications

Overheating – designs, technology and landscaping to reduce overheating of homes due to rising temperatures

Space standards – minimum space standards for various house-types to make them more likely to appeal to a wider population and sustainable in future housing markets

Fire safety - reducing deaths from fire in the home

Construction Quality

Construction efficiency – better cost efficient buildings that will be supported by lenders and insurers and offer good consumer warranties

Re-use of resources – remediation and demolition plans, controlling site waste and reusing buildings

Civil Engineering Environmental Quality (CEEQUAL) – improving the environmental performance of civil engineering

Health and safety – better construction management to reduce accidents

Rewarding Quality and Delivering Locally

Site-specific issues - addressing local and planning concerns

Deliverability and long-term management – how likely the ideas will be turned into reality with a long-term stewardship of the place and public realm

Community engagement – involving and engaging local people in the process before and after development

Delivery and financial capacity of developers – the capacity of the developer's team and partners and suppliers to deliver the project and act commercially

Key Carbon Challenge Objectives



- Pilot ways of delivering Code Level 6 zero carbon homes before 2016
- Maintain Quality Standards
- Achieve high levels of affordable housing
- Continue to drive down defects
- Further reduce accidents on site
- Improve community cohesion and safety
- Strive for quality design and exceptional place making
- Achieve cost efficiencies of Design for Manufacture (excluding land and equipment specific to Code Level 6)

Carbon Challenge Generic Brief



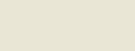
- Quality Places
- Quality Homes
- Designing the detail (materials etc)
- Code for Sustainable Homes level 6
- Cost efficiency
- Durability and maintenance
- Local and Site Specific issues

Code Categories









Energy

• Water







Pollution

Health & Well-being



 Surface Water Run-off





Management

Ecology

•





Carbon Challenge - Zero Carbon

Code Level 6

No net carbon emissions from all energy uses in the home, i.e. energy taken from the grid is less than or equal to the amount put back through renewables





- Sites being brought to the market individually
- EP sites: Bristol, Peterborough
- RDA, local authority sites: Bickershaw and Brodsworth





- Stage 1: Expressions of interest.
- Stage 2: Shortlisted developers full site bids.
- The generic brief is being applied to all sites + local site specific requirements and terms. Evaluation weights different for each site.
- Quality evaluation matrix
- Quality & Price balance

Brodsworth





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Brodsworth, Adwick Le Street



Bickershaw Colliery, Wigan









South Bank



South Bank





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Hanham Hall, Bristol















Monitoring & Dissemination



- All schemes will subject to an open book process
- Developers will be required to share their learning whilst recognising commercial interests
- Homes will be monitored including by EST requiring purchaser and tenant cooperation
- Compliance against bids will be an issue & challenge

English Partnerships The National Regeneration Agency





www.englishpartnerships.co.uk
www.http://carbon.englishpartnerships.co.uk