

Millennium Communities



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Millennium Communities

- Exemplar sustainable communities
- 1,200 completed homes
- 1,000 under construction
- Core targets
- Local targets
- National demonstrations

Millennium Communities

- Eco-homes Excellent
- BREEAM Excellent
- Reduction in energy use
- Reduction in embodied energy
- Reduction in water use
- Reduced construction waste
- Reduced domestic waste
- Improved noise reduction
- Lifetime Homes
- Secured by Design
- Mixed tenures
- Scheme Design Standards
- Improved Health & Safety
- IT enabling
- Lower defects

Greenwich Millennium Village



GMV monitoring

- Eco-homes Excellent
- 64% redn in primary energy
- 25% redn embodied energy
- 20% redn water usage
- 70% redn in defects
- 59% redn construction waste



Allerton Bywater



Miller Homes monitoring

- Eco-homes Excellent
- 20% energy reduction
- 27% redn water usage
- Increased daylighting in living rooms and kitchens
- 80% redn construction waste



Allerton Bywater



Allerton Bywater



New Islington



New Islington



New Islington



New Islington

- Eco-homes Excellent
- 23% redn in energy use
- 46% redn in water use
- Doubled daylighting factors



South Lynn



South Lynn

- Eco-homes Excellent
- 94 kWh/m²/yr
- 135l per person per day
- 1.65% in living areas
2.2% increase in kitchens
- 25 defects at practical completion



Carbon Footprint

Community	Improvement on 1990 Building Regulations	Improvement on 2002 Building Regulations	Improvement on 2006 Building Regulations
Kings Lynn	52%	28%	17%
Telford	51%	26%	15%
Allerton Bywater	49%	21%	9%
Greenwich	48%	22%	10%
New Islington	47%	24%	13%

1,000th home



Lessons Learnt

- Agree detail in advance
- Responsibility on site
- Appoint joint contractor to monitor
- Integrate in development agreement
- Open process
- Communicate

McNetworks


English Partnerships
The National Regeneration Agency



Allerton Bywater

Telford



Telford

Telford



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

THE Carbon CHALLENGE

The challenge to build quality sustainable homes

Carbon Challenge Key Objectives

- **Pilot Code Level 6**
- **English Partnerships Quality Standards**
- **Affordable housing**
- **Improve community cohesion and safety**
- **Quality design and place making (Millennium Comms)**
- **Cost efficiencies (Design for Manufacture)**

Hanham Hall



Monitoring

- Design statement/Code
- CEEQUAL
- Code for Sustainable Homes
- BREEAM Excellent
- Lifetime Homes
- Secured by Design
- Building for Life
- SMARTwaste
- Performance in fire
- Resident perceptions
- Real time monitoring
- Mixed tenure
- Management
- Community engagement
- Construction efficiencies
- Smart metering
- Overheating
- Costs

English Partnerships The National Regeneration Agency



www.englishpartnerships.co.uk