

# “Managing for Energy Conscious Communities”

**Workshop Chair**

Barry Munday, Chairman, PRP Architects



## Code for Sustainable Homes

A step-change in sustainable home building practice



[www.communities.gov.uk](http://www.communities.gov.uk)  
communities, transport, property

December 2006

## Code for Sustainable Homes

A level playing field

If introduced, **all** new homes from April 2008 will have to reduce Carbon Emissions over Part L 2006 levels



## Section H: Energy Performance Report

Save money, improve comfort and help the environment

The following report is based on a survey carried out by a Home Inspector for:

Address: 100 Any Street, Any Town, Anywhere, AB1 CD2

Certificate Survey Number: XXXX  
Name of Surveyor: XXXX  
Date of Survey: XXXX

### SUMMARY OF THIS HOME'S ENERGY PERFORMANCE RELATED FEATURES

Construction:	Main Walls	[Type]	Insulation	[Type/Thickness]
	Main Roof	[Type]	Insulation	[Type/Thickness]
	Extension Walls	[Type]	Insulation	[Type/Thickness]
	Extension Roof	[Type]	Insulation	[Type/Thickness]
	Main Floor	[Type]	Insulation	[Type/Thickness]
	Extension Floor	[Type]	Insulation	[Type/Thickness]
Heating:	Main Heating:	[Type]	[Description: e.g. Gas central heating boiler]	
	Source	[Type]	Efficiency [Efficiency]	
	Age [Age]	[Type]		
	Emitters	[Type]		
Hot water:	System	[Type]	[Description: e.g. Solar water heating]	
	Source	[Type]	Insulation [Type/Thickness]	

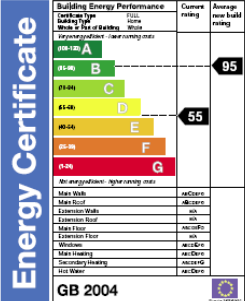
### ENERGY RATINGS AND TYPICAL RUNNING COSTS OF THIS HOME

Electricity	£ xxx per year
Gas	£ xxx per year
Other fuels	£ xxx per year
Carbon dioxide emissions (CO <sub>2</sub> )	xx tonnes per year

Energy Consumption xxx kWh/m<sup>2</sup> per year

Delivered energy and typical running costs shown above are for space and water heating assuming a standard occupancy pattern.

Rating method: UK Standard Assessment Procedure

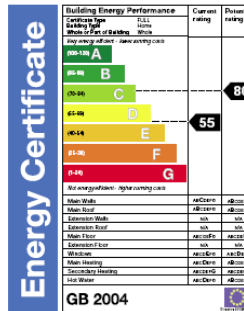


Certificate Survey Number: XXXX  
Name of Surveyor: XXXX  
Date of Survey: XXXX

## Section H: Energy Performance Report

### MEASURES TO REDUCE THE RUNNING COSTS AND IMPROVE COMFORT

Suggested Improvements		
Measure	Typical savings	Performance rating after improvement
<b>Lower cost measures</b>		
Cavity Wall Insulation (CWI)	£xx per year	65
Loft insulation top up to 250mm	£xx per year	69
Hot water tank and pipe work insulation	£xx per year	69
Sub Total £xx per year		Home Energy Rating D after improvements
<b>Higher cost measures</b>		
Condensing Boiler	£xx per year	75
Installation of a full heating controls package	£xx per year	78
Double Glazing	£xx per year	80
Sub Total £xx per year		Home Energy Rating C after improvements
<b>Further improvements to help the environment</b>		
Solar Water Heating	£xx per year	85
Sub Total £xx per year		Home Energy Rating B after improvements



- The improved Energy Ratings are cumulative, that is they assume that you have installed all the improvements in the order that they appear in the table.
- If all the lower and higher cost measures above were to be installed then the Energy Rating would increase to C.
- If all the measures above were to be installed then the Energy Rating would increase to B.

For further information on how to take action and to find out about grants for making your home more energy efficient telephone 0800 512 012. Or alternatively visit [www.surrenergy.co.uk](http://www.surrenergy.co.uk)

## Energy Certification

To further reduce residential carbon emissions

Existing homes for sale from June 2007

New homes from October 2007

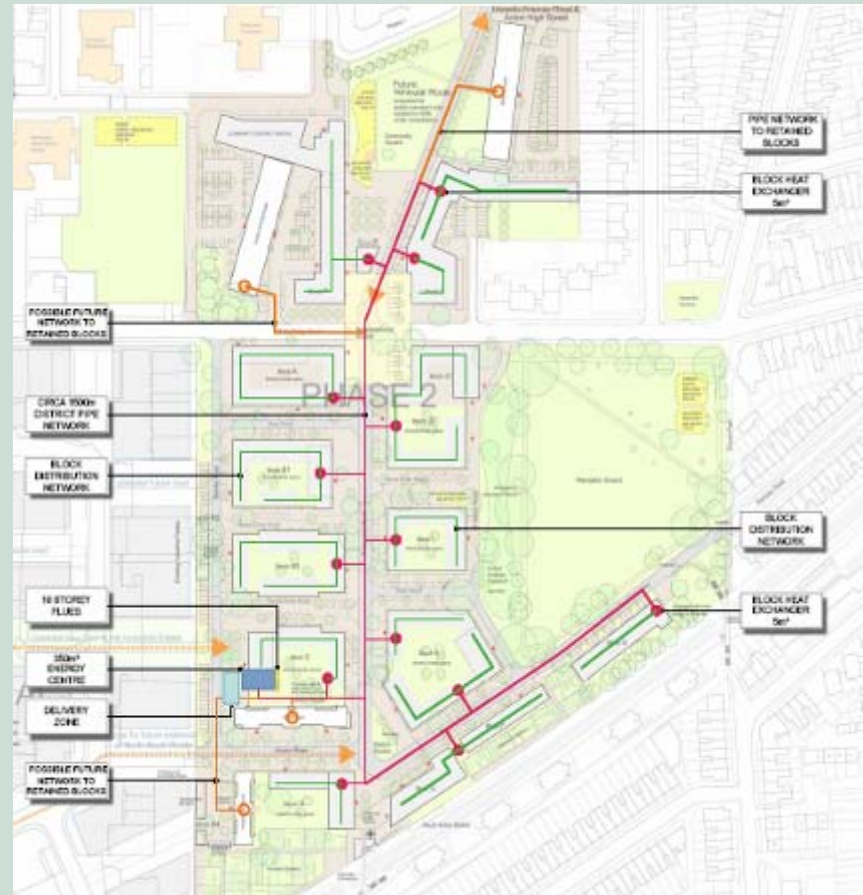


## **District heat systems**

Grove Village – gas communal heating

Alternative - Biomass heating

A popular way of meeting renewable energy requirements



## District heat and power systems South Acton Estate regeneration

Site wide heat and CHP systems becoming requirement



## Low Carbon Homes

### St Matthews Estate, Keyworker Block

Passive Design  
Energy efficiency measures  
Renewable heat technologies



## Speakers

Sue Innes , Director – Sustainability, Constructing Excellence

Brian Johnson, Chief Executive, CityWest Homes

John Mustarde, Head of Commercial Sales, Solarcentury