Apartments @ 61/m² gifa, density = 120dph Community heating

small scheme site area = 1.7ha large scheme site area = 8.3ha small scheme site area = 2.5ha

large scheme site area = 12.5ha

Terraced houses @ 73/m² gifa, density = 80dph

Community heating

	site are	site area = 1.7ha		site area = 8.3ha		site area = 2.5ha		site area	= 12.5ha	
	biomass heating	gas CHP	biomass CHP	gas CHP	local heat source	biomass heating	gas CHP	biomass CHP	gas CHP	local heat source
Rate	£	£	£	£	£	£	£	£	£	
Baseline cost	total	total	total	total	dwelling					
Part L 2006 dwelling with gas central heating										
Apartments	14,000,000	14,000,000	70,000,000	70,000,000	70,000					
Houses						17,000,000	17,000,000	85,000,000	85,000,000	85,000
Energy source										
Community heating										
Biomass @ £160-170	/kWth 100,000					108,000				
	7									
Base load gas CHP with peak load from gas boiler										
CHP £900-107	'0/kWth	161,000		576,000			161,000		638,000	
Boiler £27 to 4	7/kWth	20,000		42,000			25,000		49,000	
Base load biomass CHP with peak load from biomass boiler										
CHP £3,400/k	Wth		2,040,000					2,465,000		
Boiler £200/kW	′th		310,000					365,000		
Local installations										
Heat exchanger @ £1,700-1		340,000	1,700,000	1,700,000		390,000	390,000	1,950,000	1,950,000	
MVHR unit @ £2,500-3					2,500				4 400 000	3,000
Radiator panels @ £1,000-1		-220,000	-1,100,000	-1,100,000	-1,000	-280,000	-280,000	-1,400,000	-1,400,000	-1,300
Solar collector £3,700/e	a				3,700					3,700
Infractiva										
Infrastructure	0.000/ba 170.000	170,000	930,000	930,000		250,000	250,000	1,875,000	1,875,000	
Site-wide infrastructure @ £ 100-15 Gas connection @ £ 20-45,0	0,000/ha 170,000 000/ha -40,000	170,000 -40,000	830,000 -183,000	830,000 -183,000	-300	-60,000	-60,000	-563,000	-563,000	-300
Sas connection @	-40,000	-40,000	-100,000	-100,000	-500	-00,000	-00,000	-000,000	-000,000	-000
Renewables										
PVs @ £ 730/m ²	584,000	1,168,000	0	5,840,000	13,500	730,000	1,387,000	0	6,935,000	16,200
Building fabric enhancement										
Apartments										
extra to meet Part L 2010 £ 18/m²	220,000	220,000	1,100,000	1,100,000						
extra to meet fabric standards for level six £75/m²					4,600					
Houses										
extra to meet Part L 2010 £ 10/m²						150,000	150,000	730,000	730,000	
extra to meet fabric standards for level six £70/m²										5,100
Total cost	15,154,000	15,819,000	74,697,000	78,805,000	93,000	18,288,000	19,023,000	90,422,000	95,214,000	111,400
Extra over cost	1,154,000	1,819,000	4,697,000	8,805,000	23,000	1,288,000	2,023,000	5,422,000	10,214,000	26,400
Extra over cost per m ²	94.59	149.10	77.00	144.34	377.05	88.22	138.56	74.27	139.92	361.64
% extra over	8.24	12.99	6.71	12.58	32.86	7.58	11.90	6.38	12.02	31.06
Cost of carbon dioxide saving £/tonne per annum	10	565	230	550	1,625	385	530	205	515	1,595