

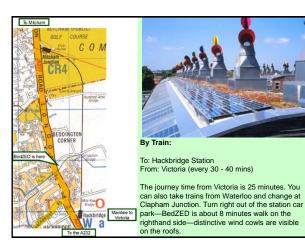




BedZED

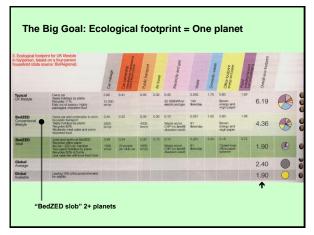
BedZED is a mixed development urban village for The Peabody Trust. On a brownfield wasteland site in the London Borough of Sutton, the development provides 82 dwellings in a mixture of flats, maisonettes, and town houses, plus approximately 2,500 m² of workspace/office and community accommodation including a health centre, nursery, organic café/shop, and sports clubhouse.



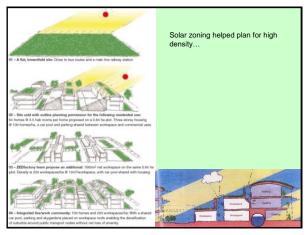




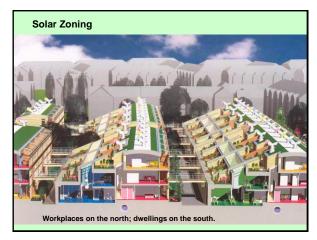




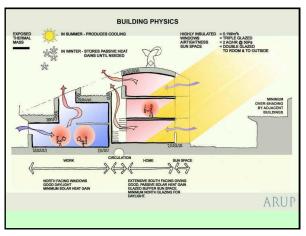




















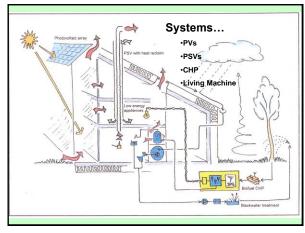


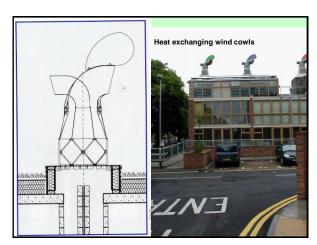










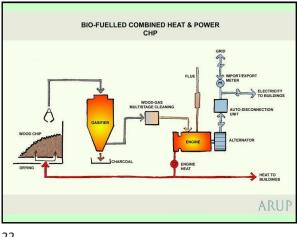






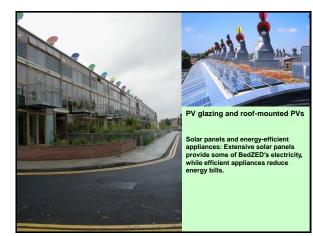










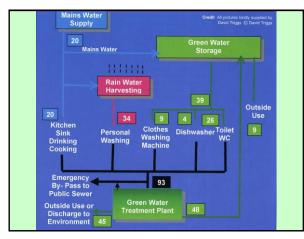








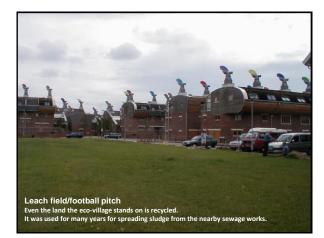




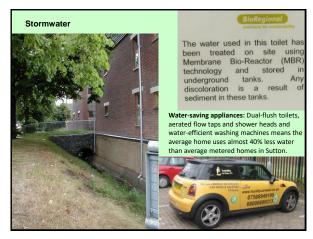




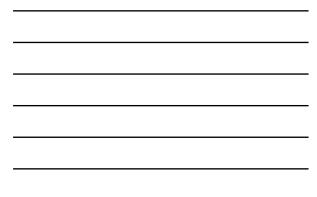


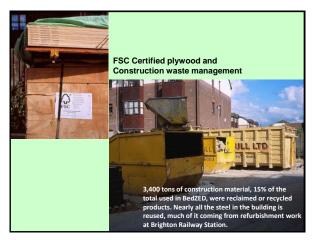


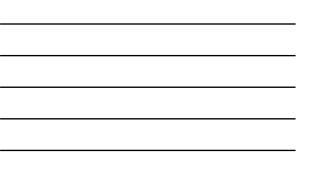












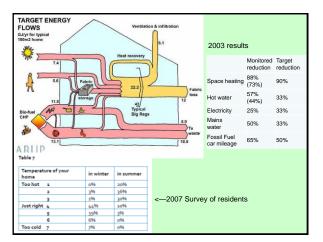


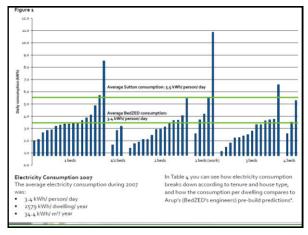








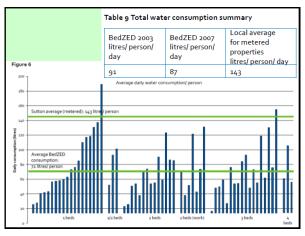


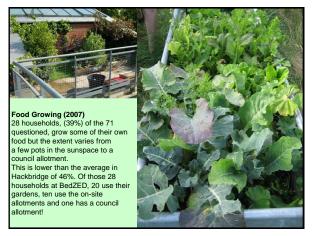




Total energy consumption and CO2 emissions/ m² (residential) Table 6					Electricity imported kWh	Electricty exported kWh	Net grid electricity consumed kWh	
		BedZED 2007 ⁴	BedZED 2007 if CHP in operation ⁵	UK Average (based on dwellings built in 2002)	May-o6 Jun-o6 Jul-o6 Aug-o6	12,312.87 14,423.06 14,897.27 21,436.51	725.95 2,627.71 2,558.72 538.41	11,586.92 11,795-35 12,338.55 20,898.1
					Sep-o6 Oct-o6	22,742.4	273.95	22,468.45
Heating & hot	kWh /m²/yr	48.0	48.0	231.8	Nov-o6	14,903.52 124,831.14	11.96 6,979.74	14,891.56
water	CO ₁ /m²/yr	9-3	1.2	45	12 month equivalent	249,662.28	13,959.48	235,702.8
Electrical	kWh /m²/yr	34-4	34-4	45-5		ecture: Advanced E ED lessons, Simon		
load	CO ₂ /m²/yr	10.6	-8.9 18.4		-			
Total energy	kWh/ m²/yr	82.4	82.4	275-3	A	4	2	
use	CO_/ m²/yr	19.9	-7.7	63.3	-	TRACK TRACK		







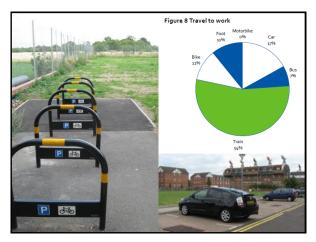






ble 10					
2007	Waste audits	Waste audits			
Waste stream	Kg/ household/ week	Kg/ person/ week	% composition (weight)	% composition (volume)	% households using the bin
mix dry (cans/ fabric / plastic/ card/ paper)	2.4	1.2	30%		90%
green glass	1.0	0.7	12%		80%
brown glass	0.2	0.1	296	7	72%
clear glass	0.4	0.2	5%	7	82%
white paper	0.0	0.0	0%		45%
Total recycling	4.0	2.2	50%	37%	90%
Compost	0.6	0.3	10%	7%	31%
Landfill	3-5	2.0	40%	56%	94%
Total	8.1	4-5	100%	100%	n/a







Summary of likes

Most answers fell into the following categories (shown in order of frequency and number of interviewees who mentioned it):

- BedZED community (32)
- Bed2EU community (32)
 Architecture/ design (28)
 Sustainability (21)
 Wellbeing (feeling of space, light, quiet, health...) (19)
 Garden and sunspace (13)
 Cost (5)
 Location (5)
 Other (imigroupper medemility,) (4)

- Other (uniqueness, modernity...) (4) Facilities (community centre, car club, showers...) (3)
 Size (3)

Summary of dislikes Most answers fell into the following categories

(shown in order of frequency and number of interviewees who mentioned it):

- Location (15) · Lack of wellbeing (temperature, noise...)
- (14)
 Things not working (CHP, hot water, repairs needed...) (13)
 Management (11)
- Size (9)
 Nothing (8)
- Crime/ fear of crime (7)
- Parking (6)
 BedZED community (5)
- Design (5)
 Intrusion from visitors (3)
- Sustainability (2)

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BedZED's performance 2015 - the facts and figures BedZED's residents enjoy significant savings in their energy and water bills, and the development as a whole offers big reductions in carbon dioxide emissions compared to conventional UK housing. Between 2012 and 2015, BedZED's annual gas consumption was 36% lower than a typical conventional development in Sutton, London of the same size and mix (100 homes plus office, college and community space).

Its annual electricity consumption during that period was 27% less. Consequently, we estimate that BedZED's greenhouse gas emissions (tonnes of carbon dioxide equivalent) from heating and electricity use were 32% less than from an equivalent conventional development during that four-year period.





