



zecliscory

Home truths?

Chinese oil consumption rose 17% last year

China is expected to double its oil consumption over next 15 years

Peak oil occurs more or less now

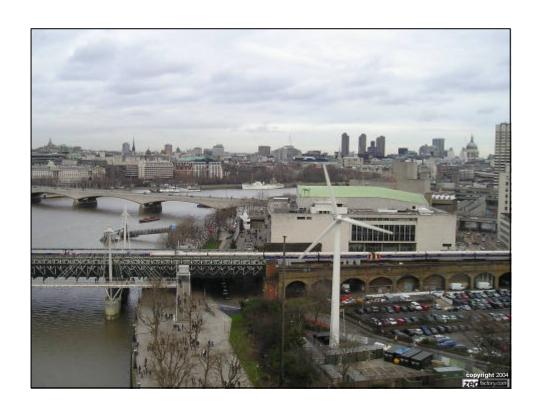
Peak gas occurs in about 5 years time

Peak nuclear occurs 10 to 15 years later

- the UK could only ever produce 30 % of current energy demand from renewable sources from within our national boundaries

Zeofectory Current UK energ	y consumption	n
Industry	1416 Twh /yr	20 %
Transport	2397 Twh/yr	33 %
Domestic	2034 Twh/yr	28 %
Agriculture/services	872 Twh/yr 12 9	%
other uses	508 Twh/yr 7 %	
Total	7228 Twh/yr	100 %
subtract losses	2968 Twh/yr	41 %
power consumed	4259 Twh/yr	59 %

IIK energy national	renewable resource	
Wood fuel OD	6 kg/capita/yr @32 kwh	1 %
		. ,0
waste veg oil	2 kg/yr @12kwh	0.5 %
other biomass	330 kg/yr @ 764 kwh	23 %
Offshore wind	1100 kwh/capita/yr	33 %
Onshore wind	88 kwh/capita/yr	3 %
PV	407 kwh/capita/yr	12%
Microwind	244 kwh/capita/yr	7.3%
Wave	550 kwh/capita/yr	16.5%
Tidal	20 kwh/capita/yr	0.6%
Waste technologies	71 kwh/capita/yr	2.1%
Landfill Gas	38 kwh/capita/yr	1%
Total	3326 kwh/capita/yr	100 %





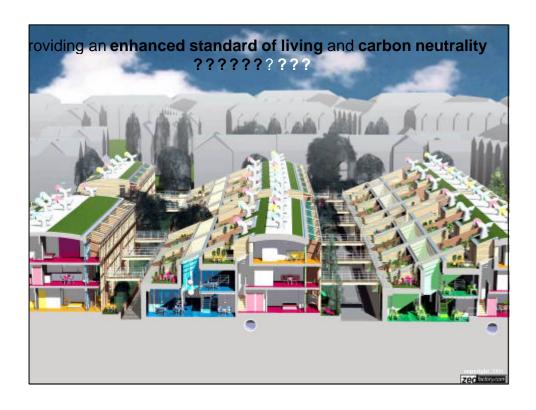


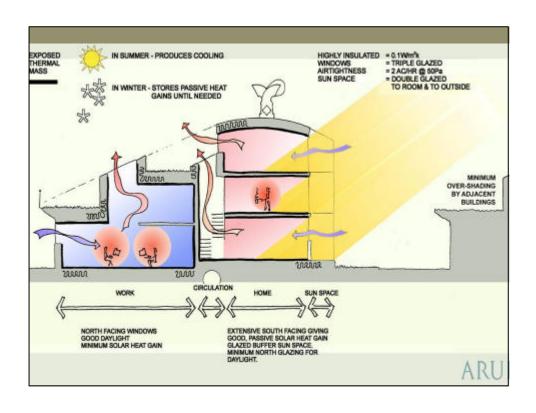


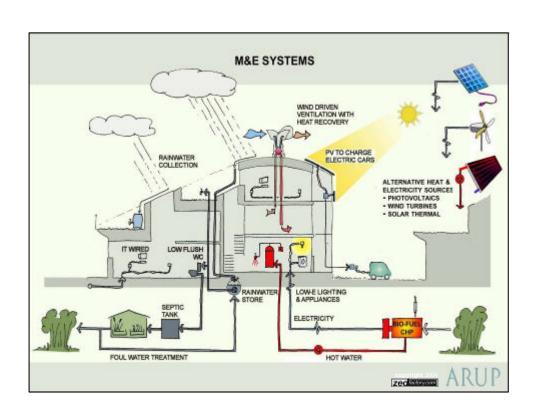




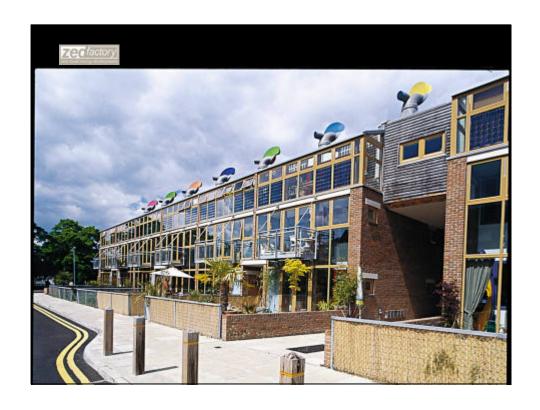






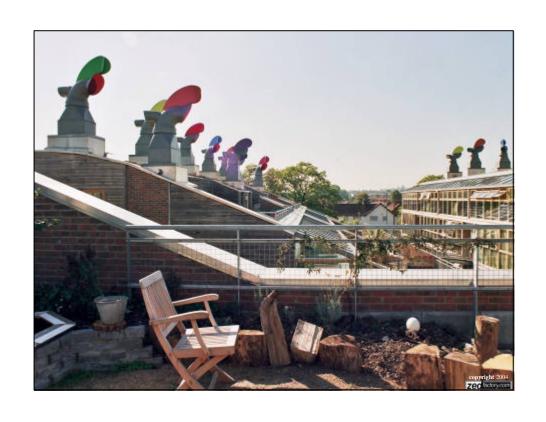














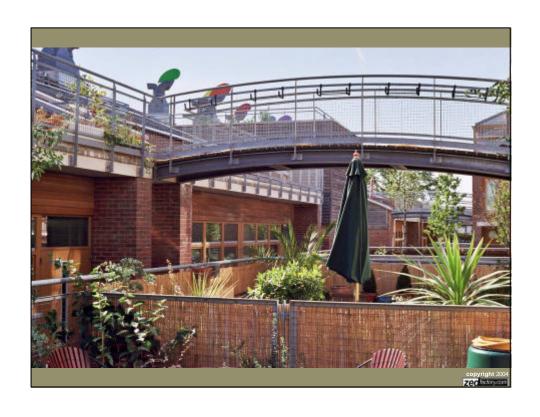


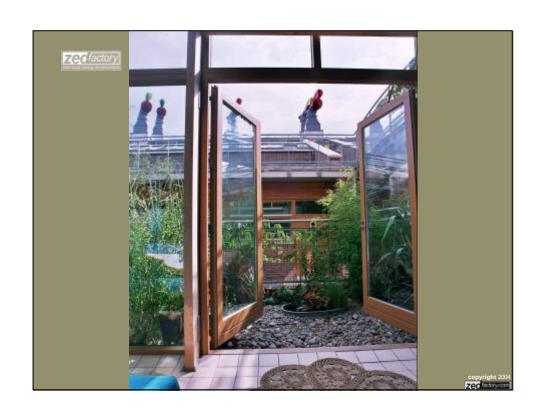


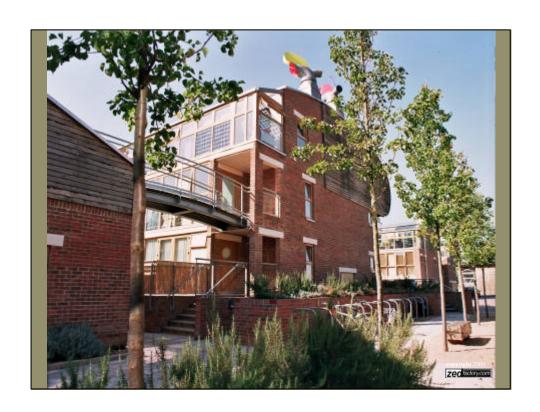




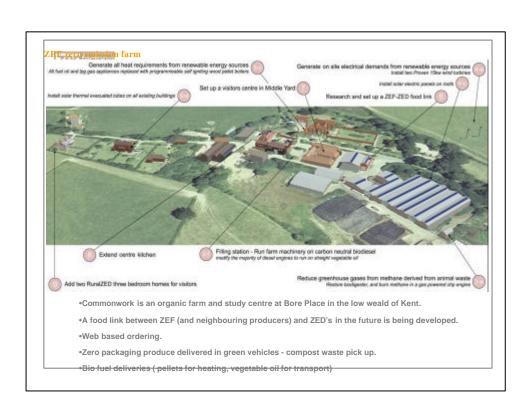


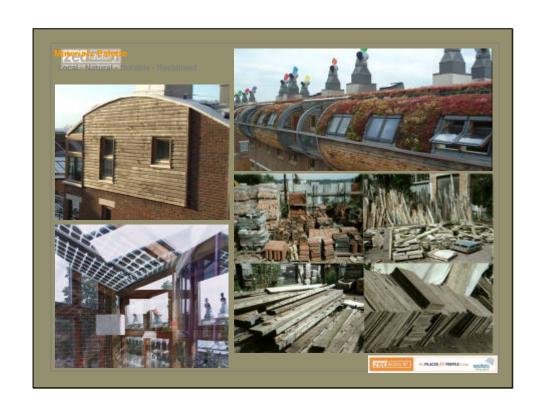




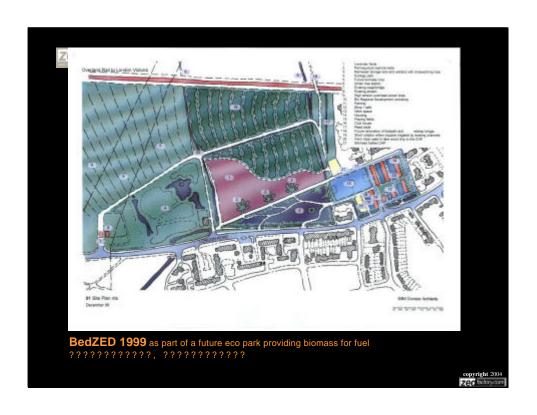


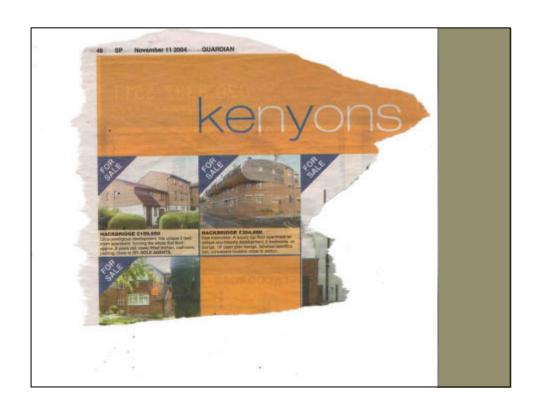


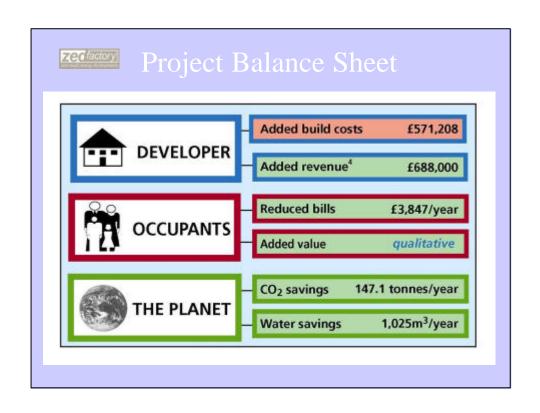




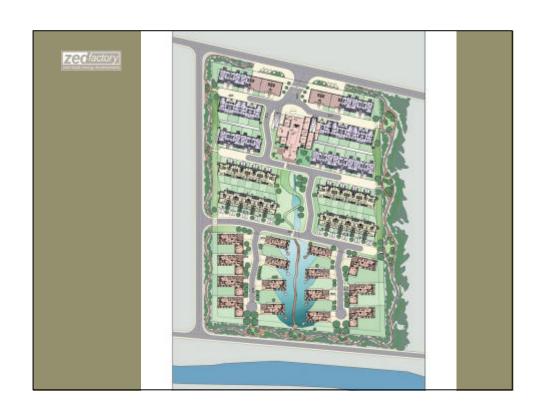


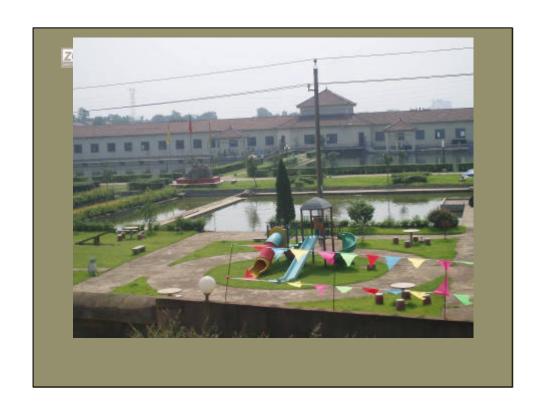




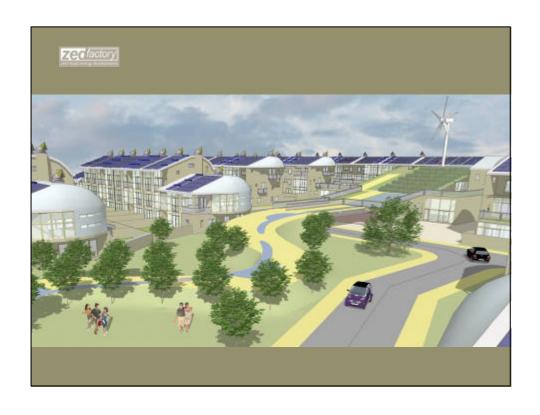




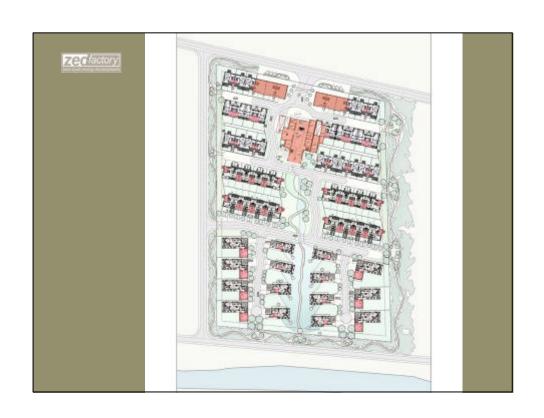






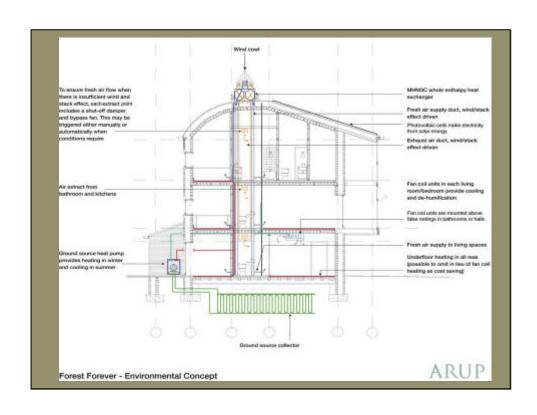


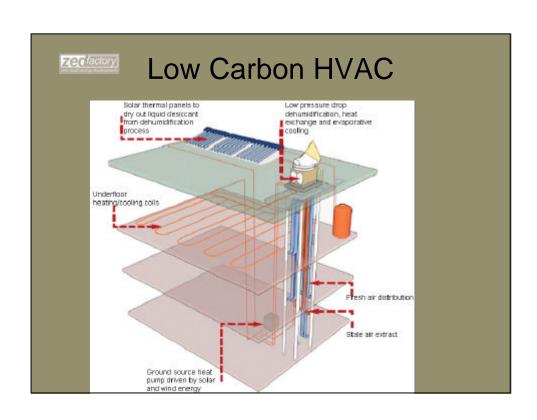


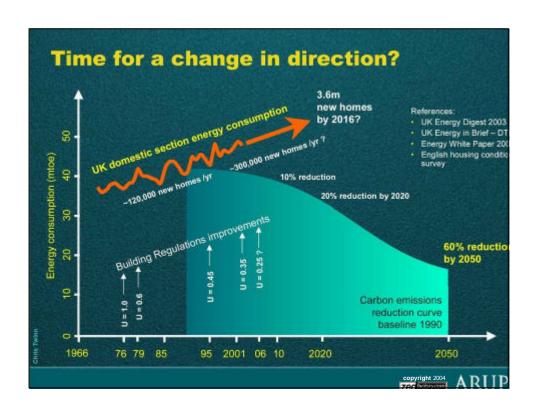


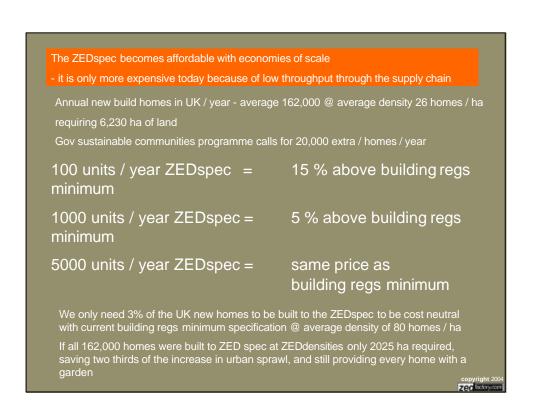


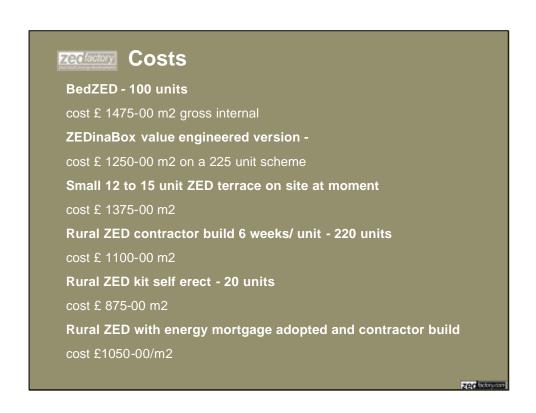


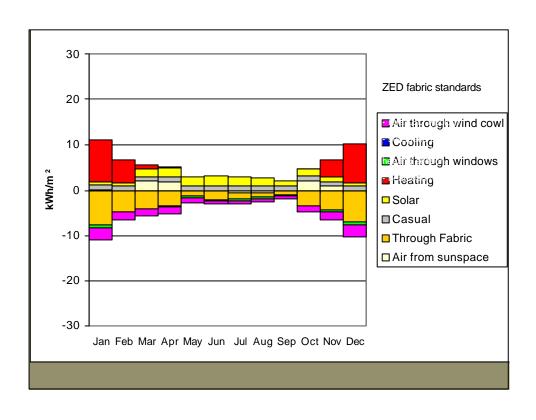


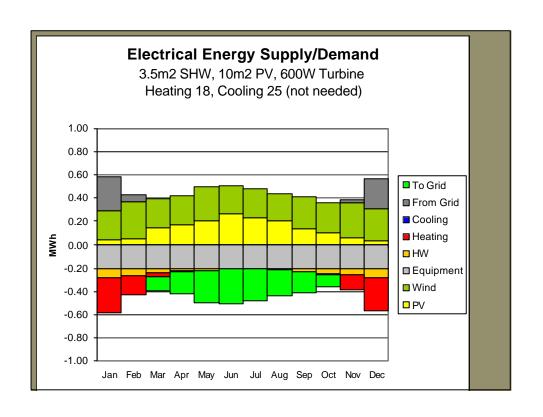


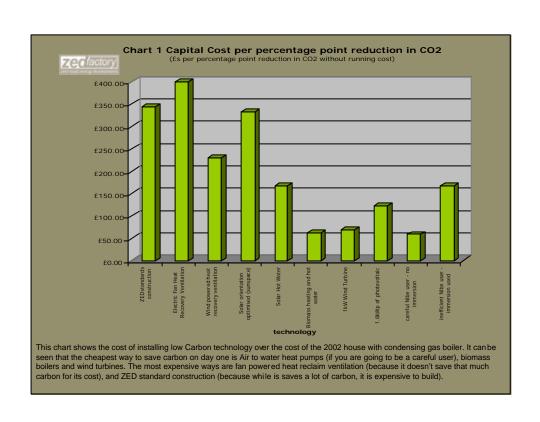


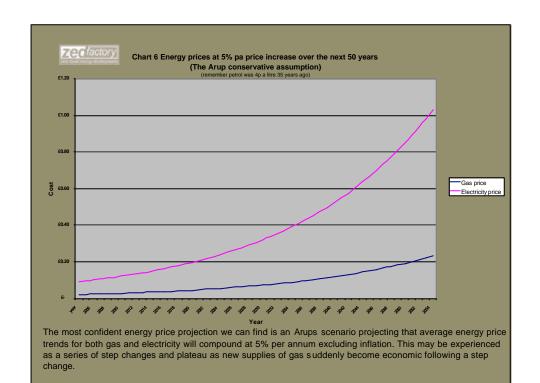


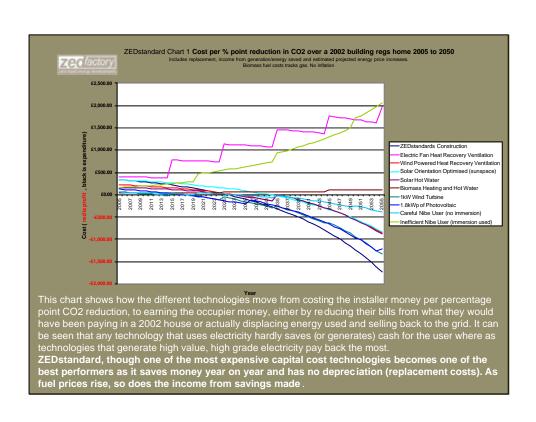


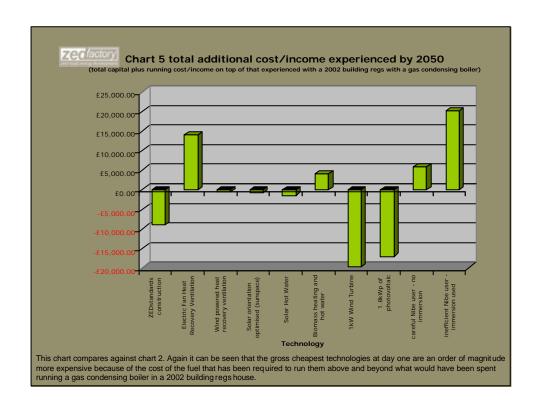


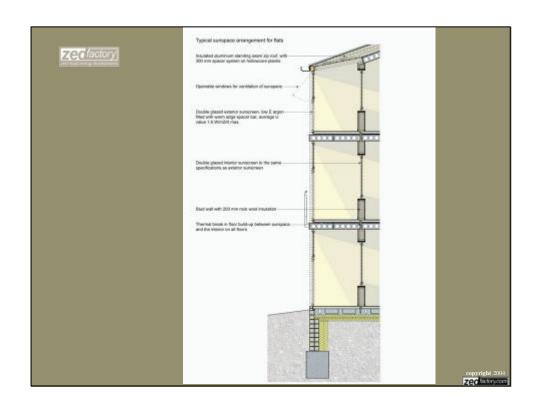


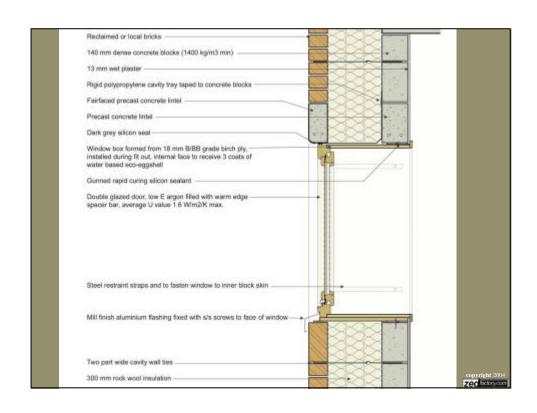














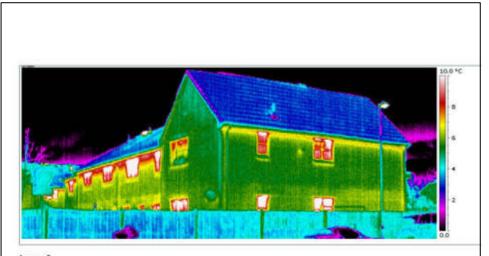


Image 2
Housing development adjacent to block A at rear of site with North facing façade nearest (little solar gain). Heat loss is evident at eaves level. Windows indicate areas with high heat/energy loss. East façade shows higher wall surface temperatures and heat loss at roof junction.

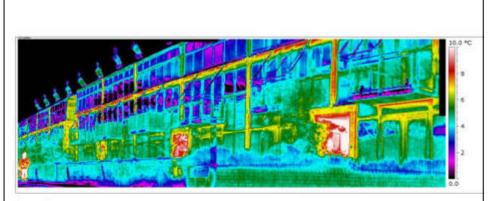


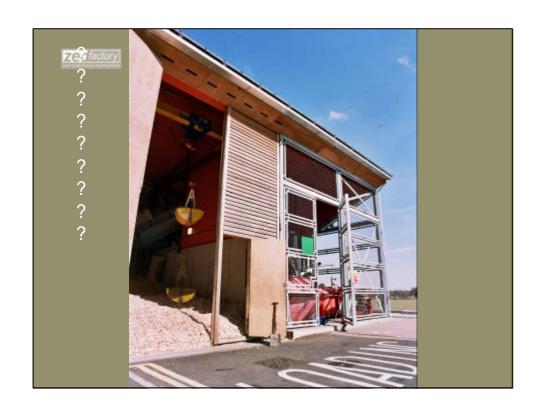
Image 3
Block A and part block B taken from rear of site looking toward main road. Note front door open in nearest property, Elevation is of south facing sun space buffer zone after 6-7 hours low winter sun. Warm areas across structural frame represent solar heat gain rather than heat/energy loss.



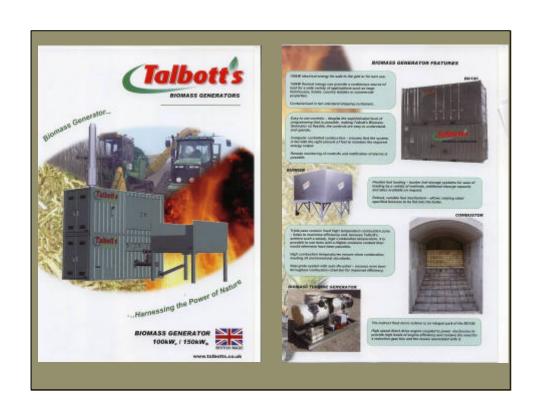




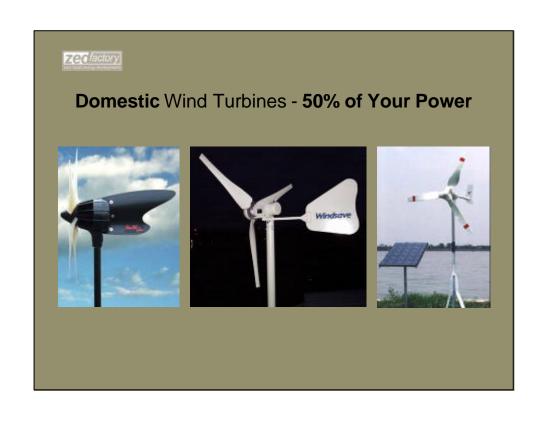


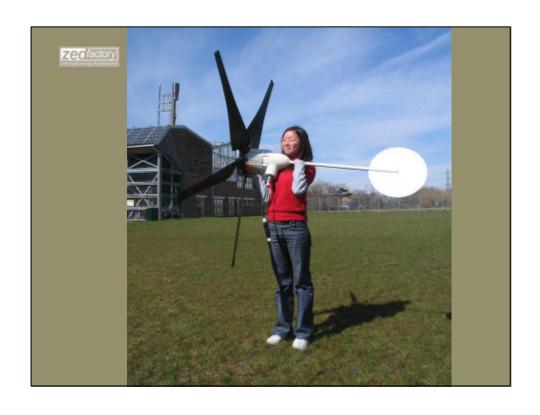






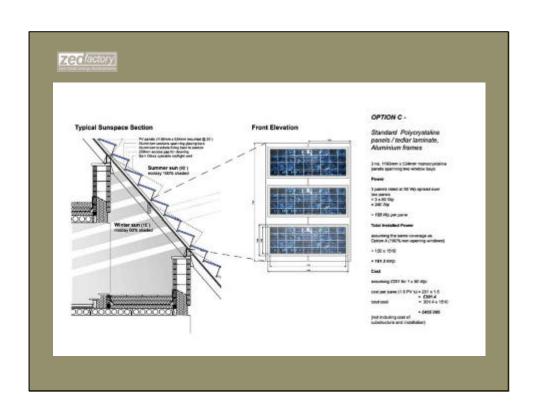


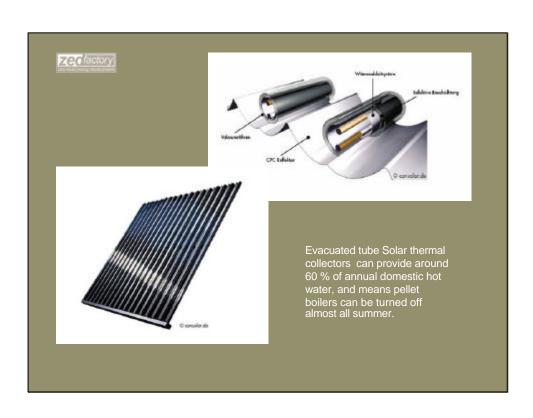










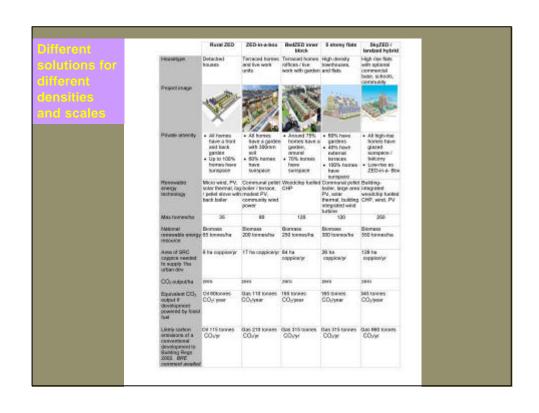


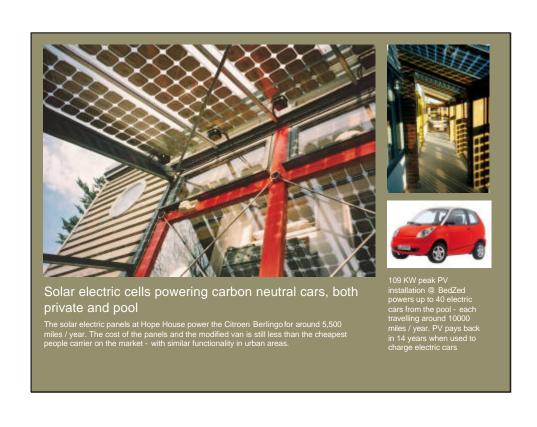










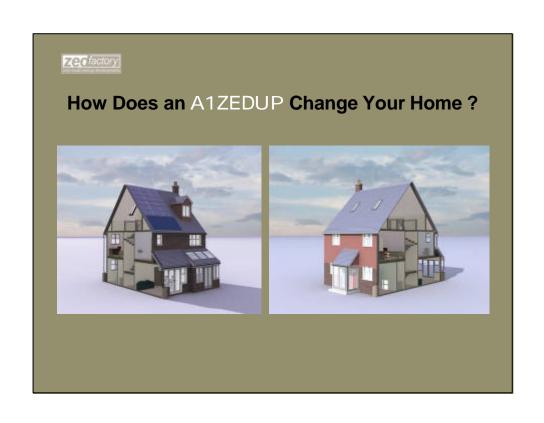




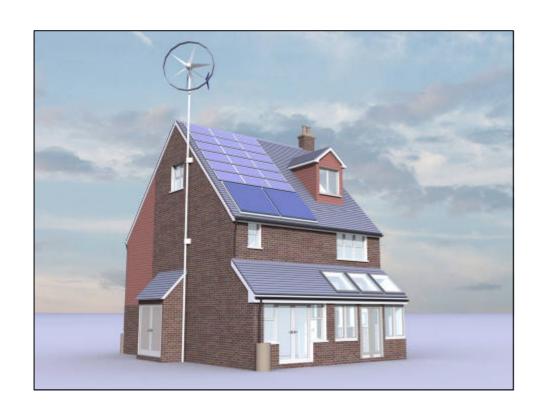






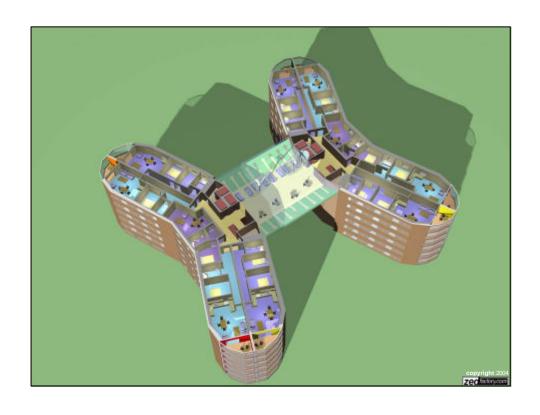




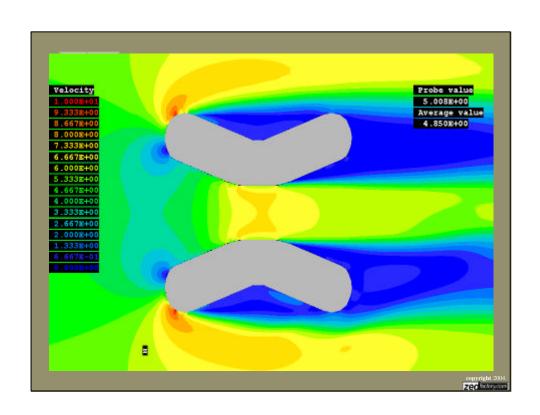


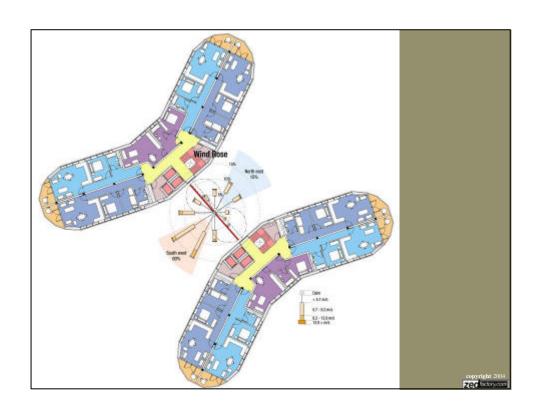


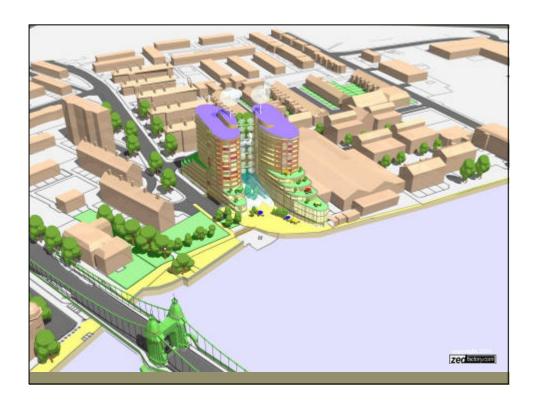






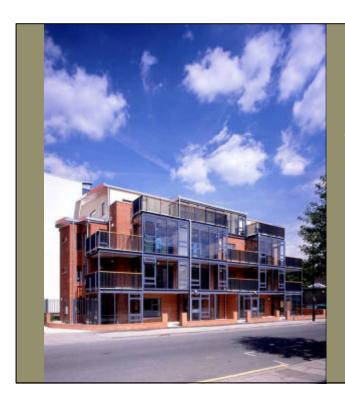








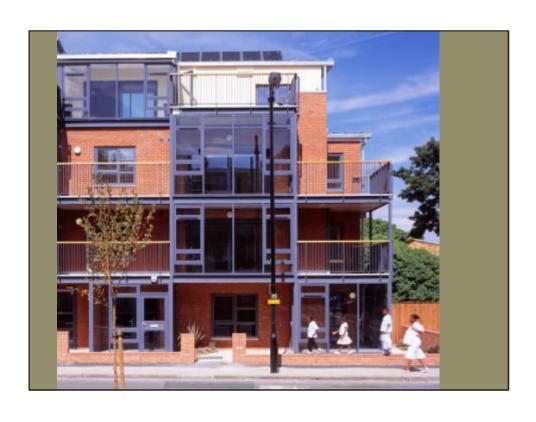




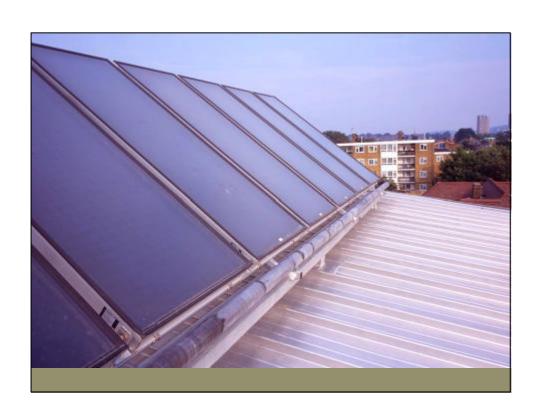
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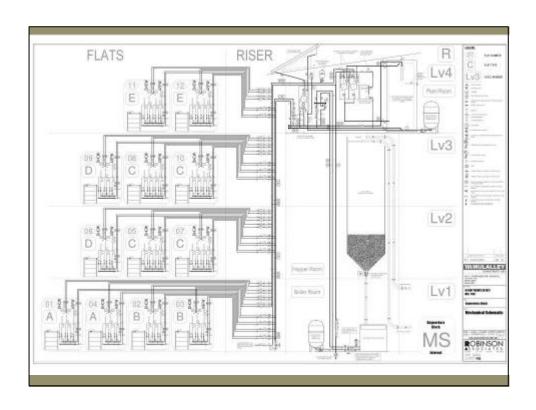
PRP / ZEDfactor

- 12 key worker housing units
- built to ZEDstandards



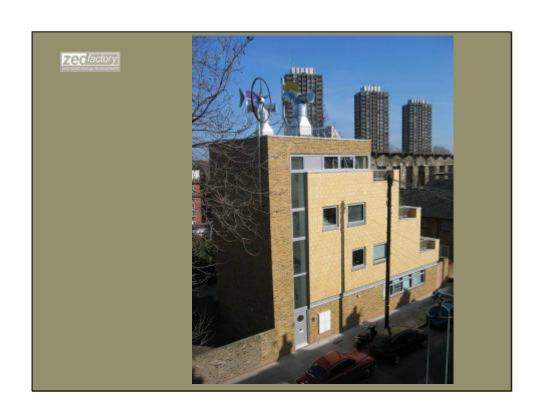








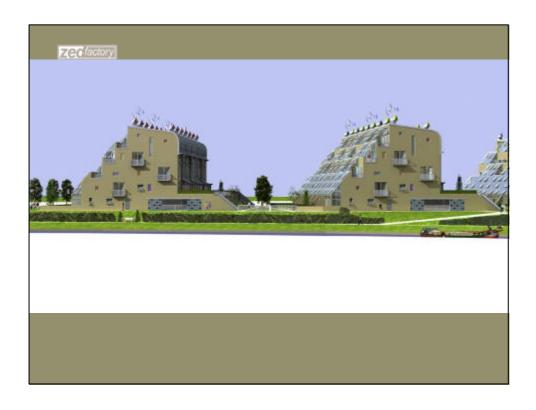


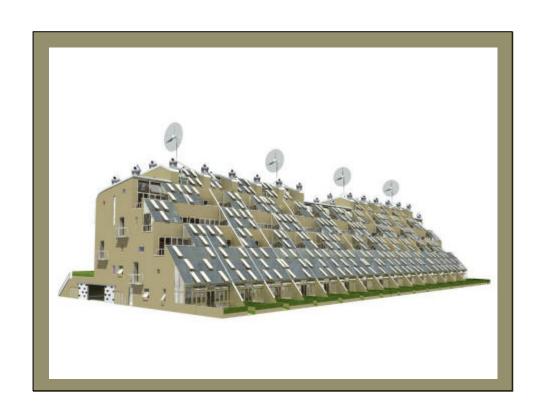










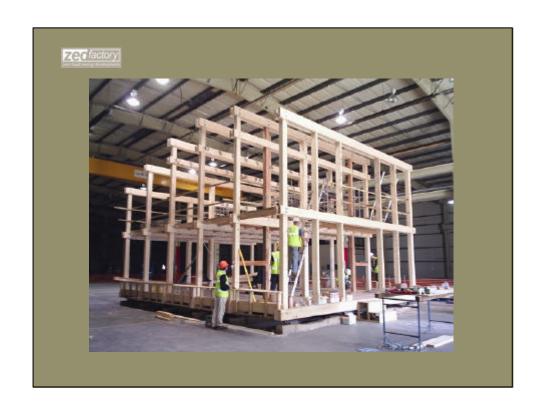












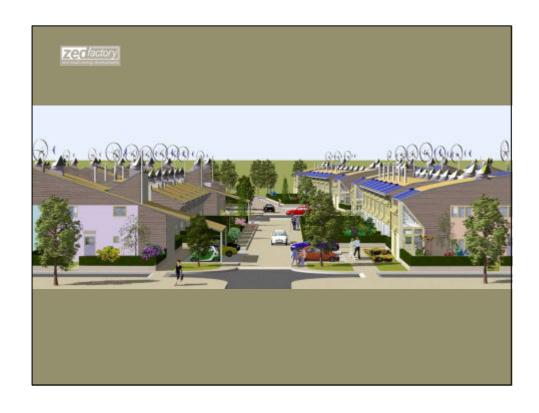












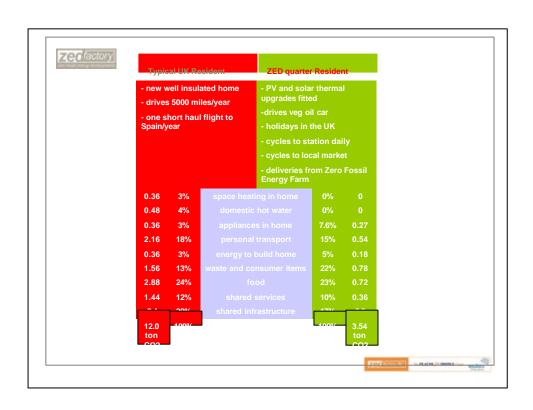


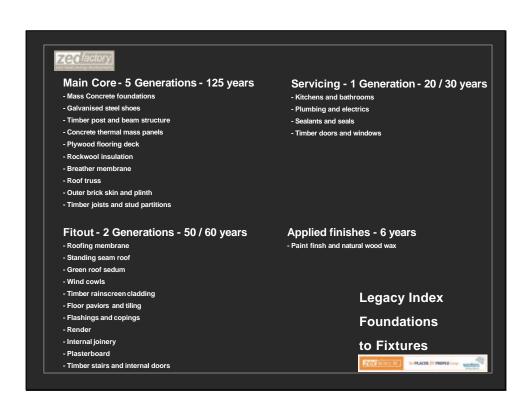












zeciscos Rural ZED cost breakdown of £ 1050-00 /m2 gross internal build rate - prelims / profit 10 % - foundations 4% - Framing 15 % - secondary timber 16 % - envelope and insulation 6 % 4% - cladding / windows 10 % - Renewable energy 15 % - Fit out and kitchen 15 % - M and E 15 % Total labour breakdown across all packages is approx 55% of total completed cost this is the place to achieve cost reductions not minimising component quality or green specifications

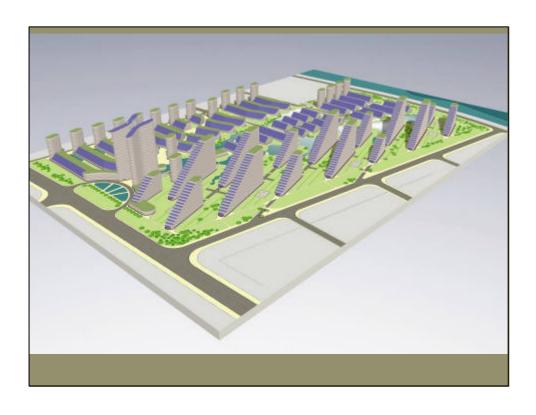


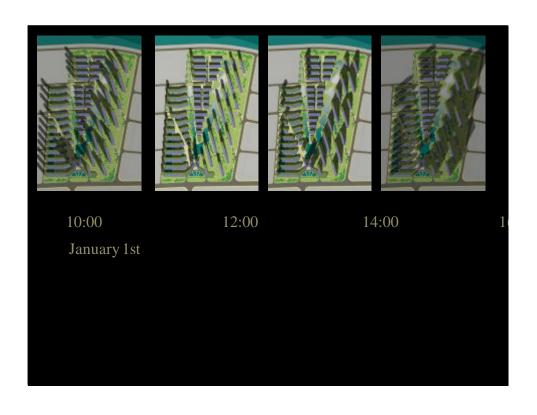


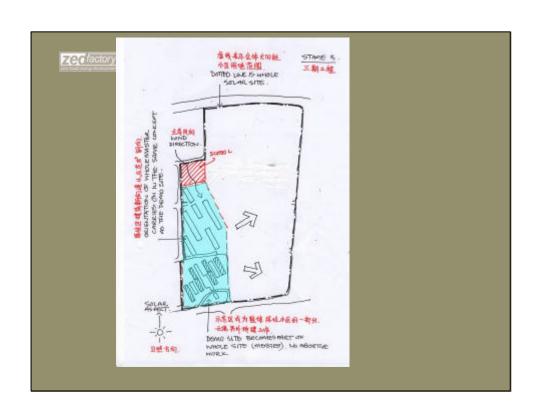


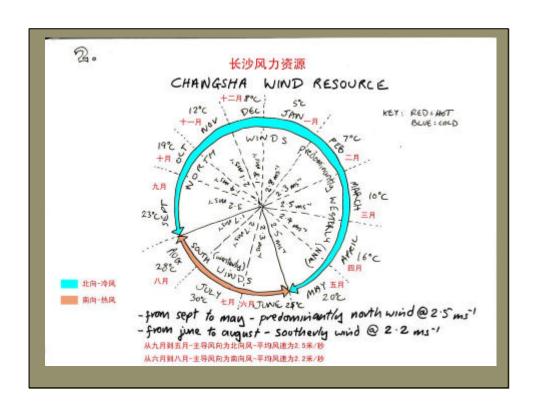


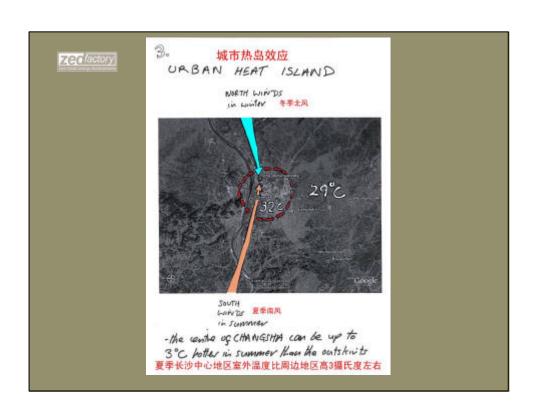


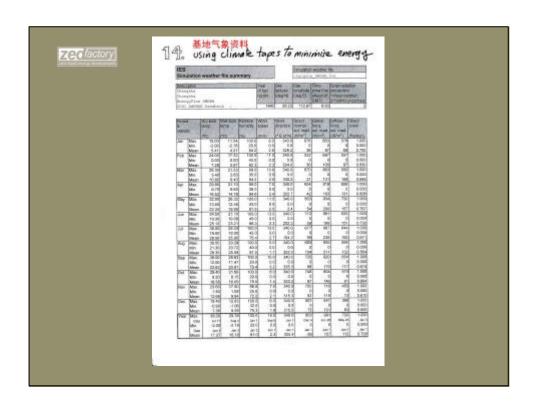


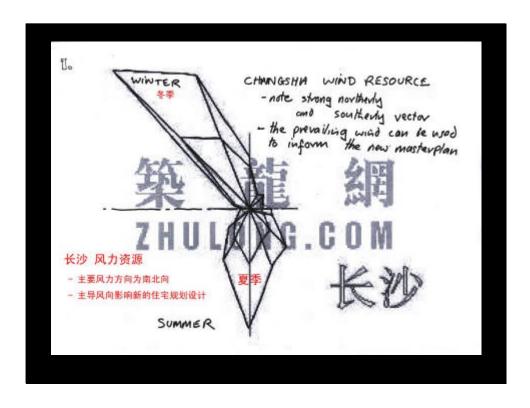


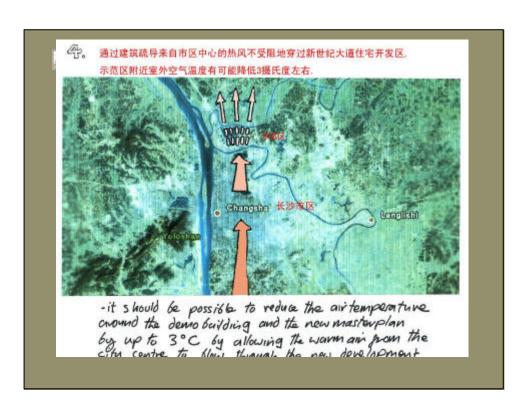


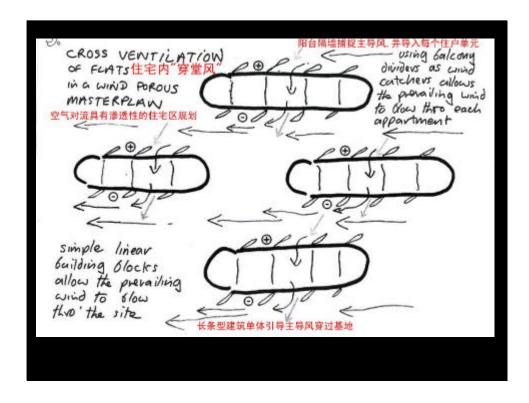


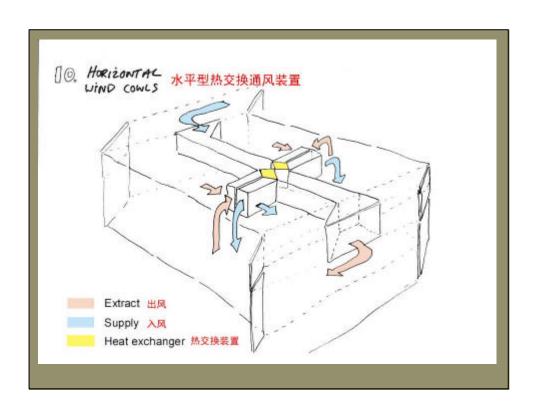


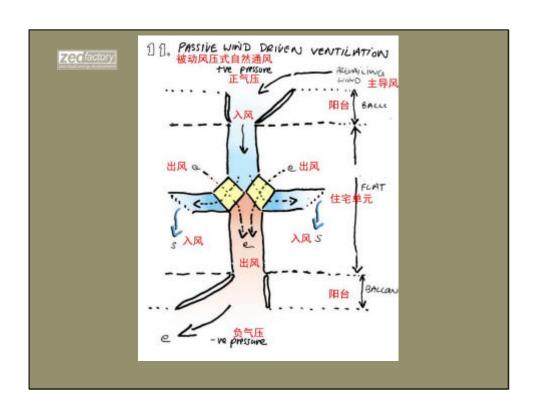


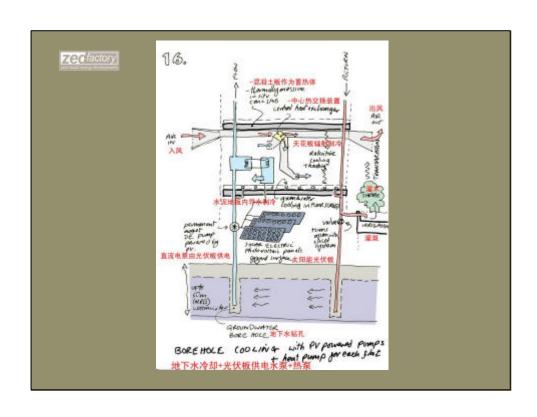


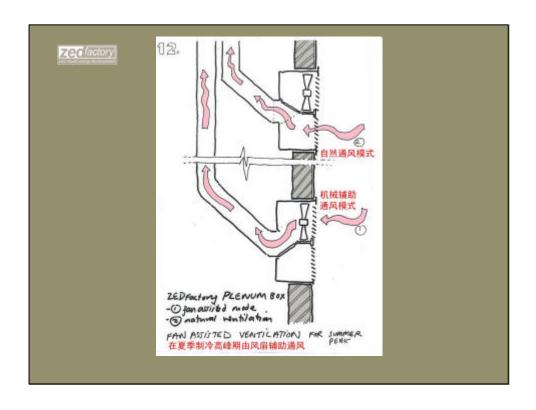




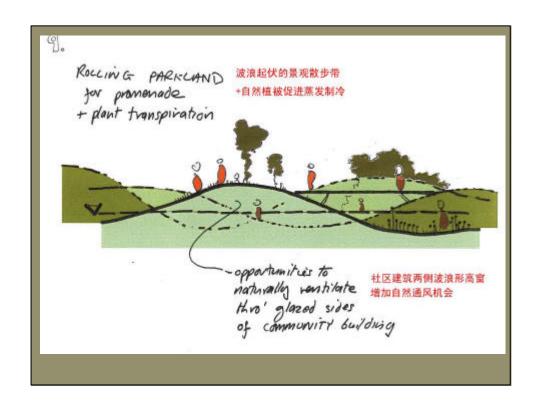


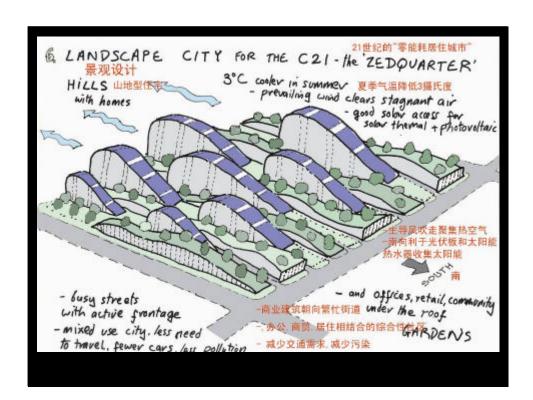




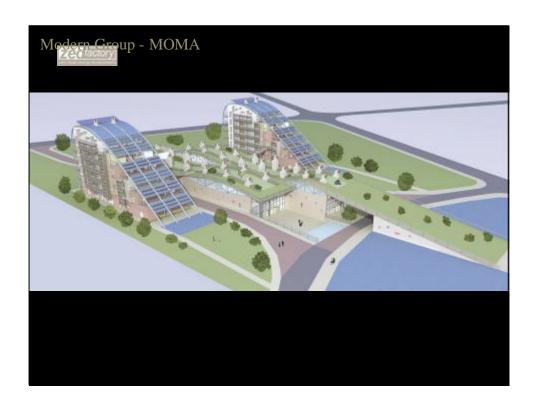




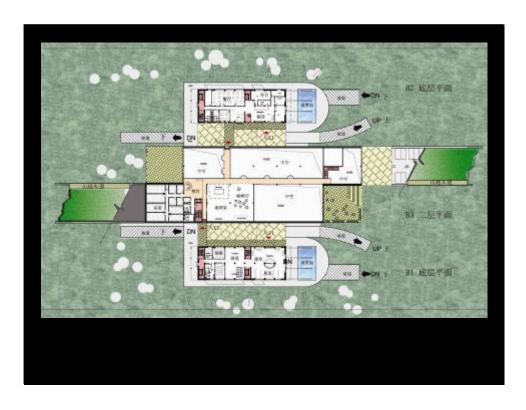


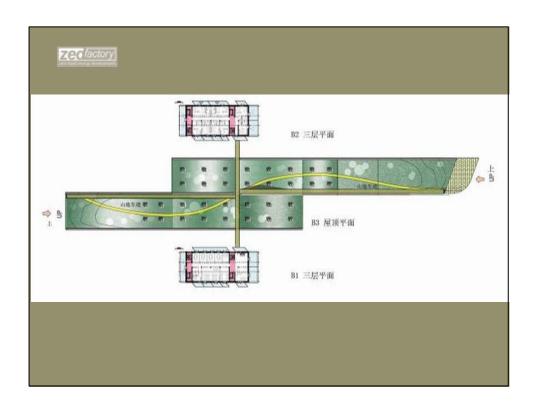






















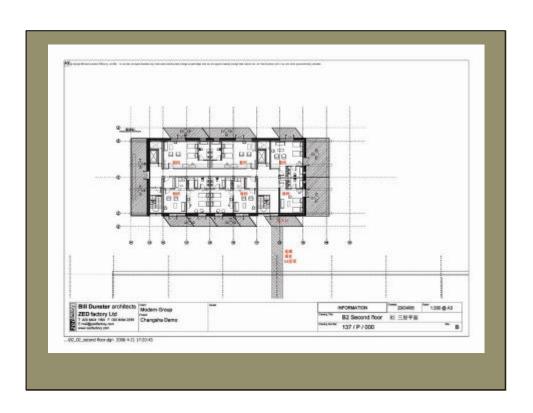




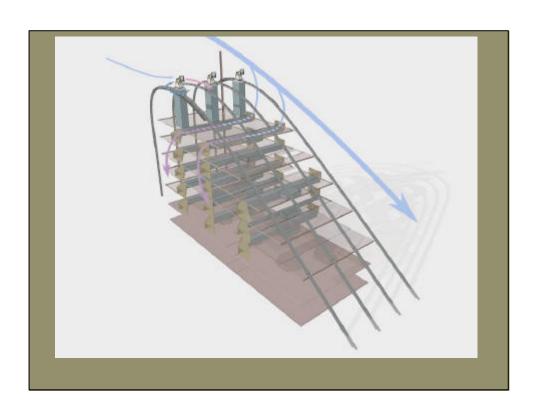


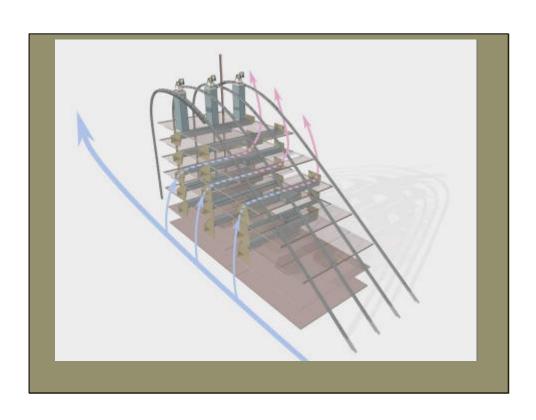




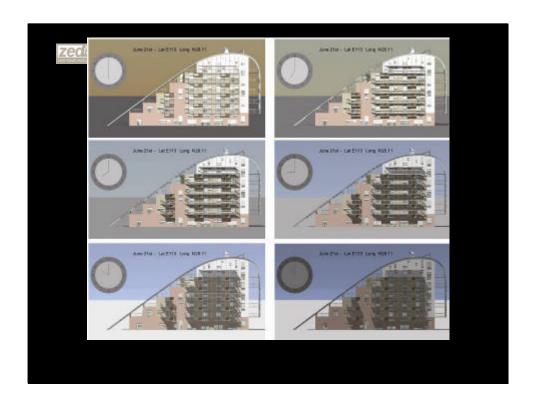


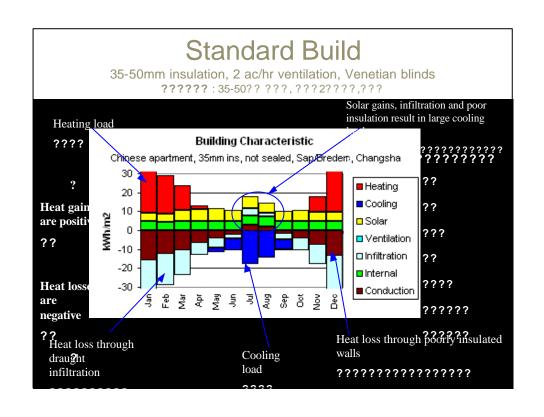


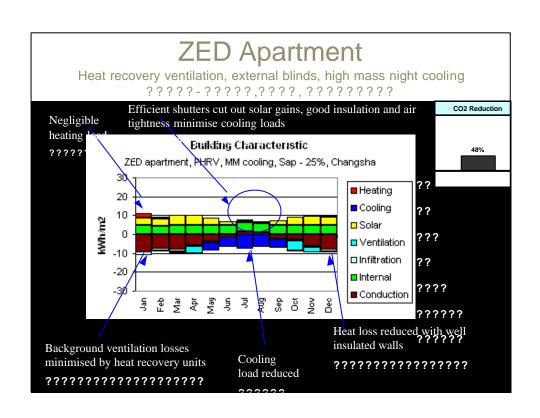


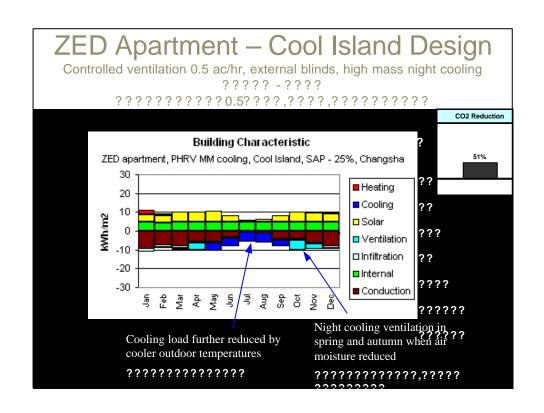


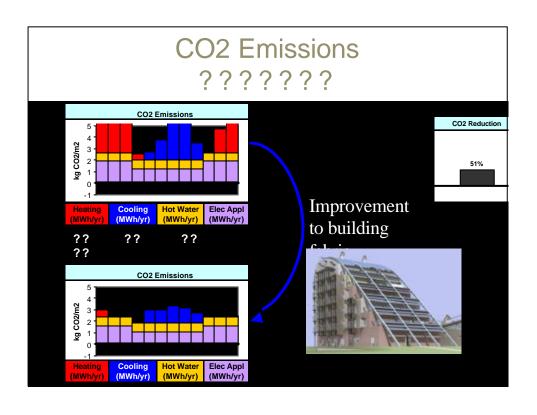


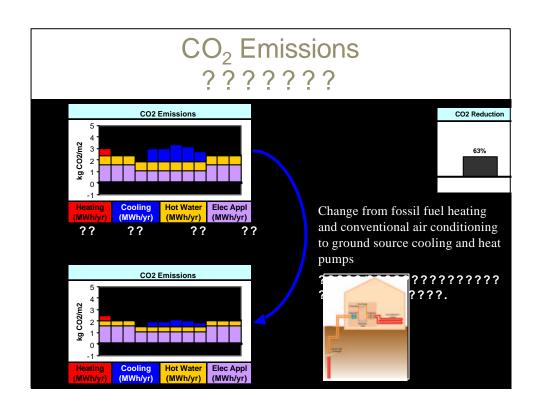


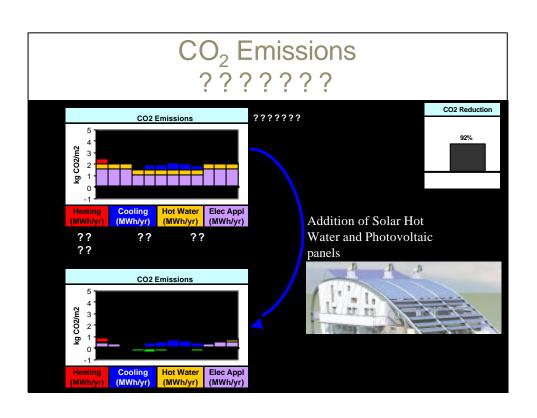






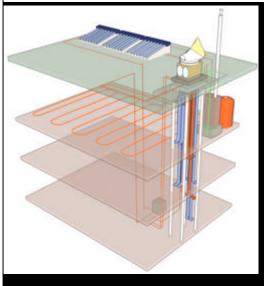








Solar powered desiccant cooling



- Supply air dehumidified with liquid desiccant.
- Exhaust air cooled by evaporative cooling.
- Supply air cooled by exhaust air via heat exchanger.
 Liquid desiccant regenerated with heat from solar collectors.
 Optional forced air from individual room fans.
- Optional additional slab cooling from ground water.
 Works in vertical or horizontal system







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