

Workshop 4

Managing for Energy Conscious Communities

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Workshop purpose

- What are the real cost of building to higher levels of energy efficiency?
- *If Housing Associations invest capital in these improvements, but tenants gain through reduced energy bills – is this the best use of scarce resources?*
- *How practical and affordable are new-style district heating systems?*

[Who should promote and organise Energy Purchasing Consortia in mixed communities?]

Can you afford not to?

- Energy costs
 - Housing Corporation requirements on sustainability?
 - Social and environmental impacts
- Not just heating costs – implications of cooling requirements in future
- Potentially double financial cost of heating and air conditioning systems (let alone the environmental implications of this!)

District heating systems

- Must have local metering and billing for usage
- Where is the incentive for people to consider how they use the heating?
- Energy conservation is still essential even if the costs are lower

Costs

- Depends how you approach the issue
- May be an opportunity!
- ‘Tunnelling through the cost barrier’
- Two examples

Honingham, Norfolk

- Built to standard Housing Corporation budget
- Earth-sheltered
- Solar panels
- All-electric
- Underfloor heating



Honingham results

- Electricity bills average £3.80/week
- Use of heating ...
- Carbon footprint

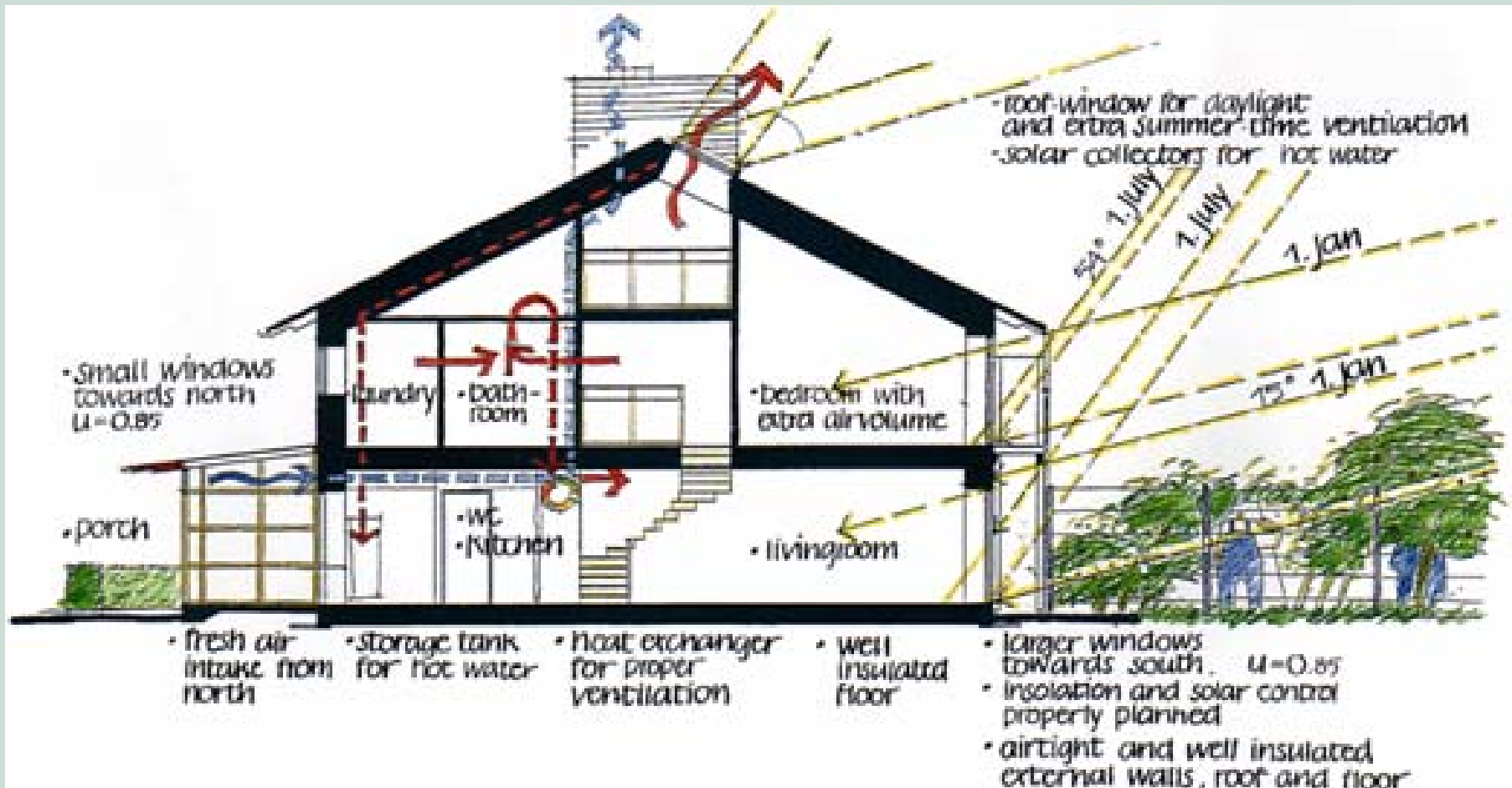


Lindas, Sweden

- Same budget as comparable 'standard' housing
- No heating system
- High-efficiency ventilation system with heat exchange



Lindas – how it is done



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