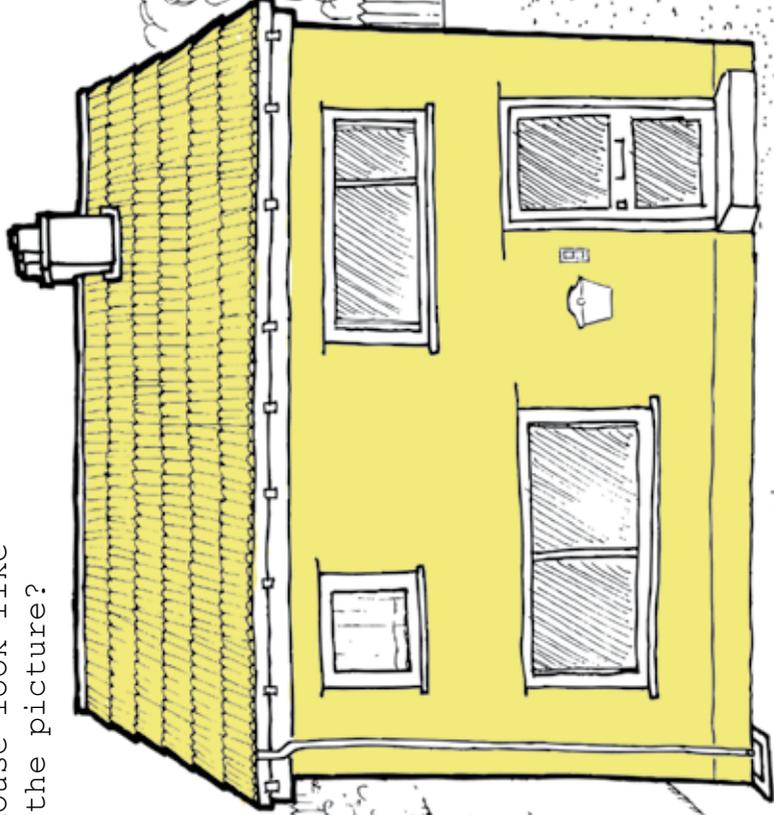


Does your house look like
the one in the picture?



Sharing local
knowledge

Then turn overleaf
to find the energy
results of this
typical home

If it doesn't look
like your home, then
pass this card on to
someone you know!

Property case-study 4

1965-75 Detached No Mains Gas

Property Type

Detached house built 1965-75, with eight rooms, with mainly cavity walls and all double glazed windows. The loft is well insulated. The small single storey extension is solid wall.

Heating Type

This house uses an old oil boiler with radiators for space and water heating.

Typical energy usage

Lighting/appliances £610 pa
Heating/hot water £1,500 pa

Behavioural recommendations (Cheap Option)

Install an energy monitor: learning to switch off all electrical appliances and lights when not in use. Can reduce electricity bills by 25%

Increase insulation on the hot water cylinder, saves £35 per year.
Turn the hot water tank immersion heater thermostat down to below 60°C, and switch it off in sunny weather. Upgrade the boiler controls. Costs £400, saves £45 per year.

Install low energy lights throughout the house. Use the garden to dry clothes, when the weather is clear not the tumble drier saves £100 per year.

Heating (When it needs to be replaced)

Install a ground source heat pump, costs range up from around £15,500 and would cut space and water heating costs by around £1,000 per year. The Renewable Heat Incentive is expected to come into force soon, potentially reducing the payback time to around 10 years at present oil prices.

Install a solar air heating system on the south facing wall. This system requires only a pipe through the wall to the room(s) behind and uses a PV powered pump to move solar heated warm dry air into the house. The system costs around £1,500, it significantly reduces damp, reduces heating costs by around 15% or some £220 per year.

Housing and Insulation (For future investment)

Cavity wall insulation should be installed, costs between £200-300 and will pay for itself in a year. If the ground source heat pump option is considered, this will work better if higher levels of insulation are installed as well. Install insulating wallpaper on all external walls when the rooms are next decorated, which can cut 12% or more from fuel bills at little extra cost. External wall insulation can cost between £9,400-£13,000, depending upon the type of insulation used and save £500 per year.

What to do next?

Contact CEP for more energy information about your home:
www.cep.org.uk/
Or call on 01209 614975

www.falenergy.org.uk