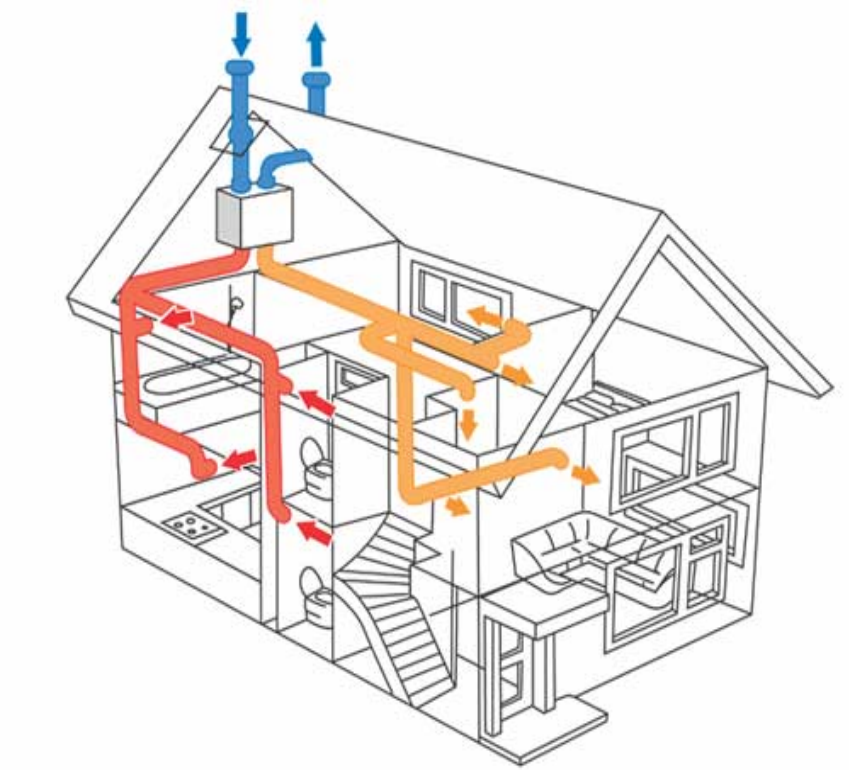
Reducing Electricity Use

An Energy Efficient Approach

An Apology



Schematic diagram of a typical wholehouse MVHR installation

- The installation of MVHR will actually increase the total requirements for electricity in the home!
- We need to claw this back.

Fixed Low Energy Lighting

- Current Building regulations demand that 30% of light fixtures are dedicated low energy fittings
- Making that 70% would lower our emissions by 57 kg p.a.

Energy Efficient Appliances

- The cost of all A-rated appliances in a new home would be around £ 1,400.
- This is,however, only £300 more than the less efficient alternative

CFL’s and CO2

- Having 70% dedicated low energy light fittings, rather than the 30% specified in the building regulations, the extra cost would be £75. This would save around 57 kg of CO2 annually, and 0.456 Tonnes over the lifetime of the bulbs.
- This represents a £164 cost for each tonne of carbon saved.

A-Rated Appliances and CO2

- The £300 extra costs of installing A-rated appliances would be £300. This would save another 386 kg of CO2 a year.
- Over the expected lifetime of the appliances, this would save a total of 3.088 tonnes.
- This would represent around £97 for each tonne saved.

Energy Efficiency Savings

- Energy bill reduced from £590 to £510
- Total annual carbon reduction from 2.8 to 2.2 tonnes
- Savings from space heating are 0.6 Tonnes annually.
- Hot water, cooking, lights and appiances are unchanged.

Rising Electricity Demands

- Air conditioning units
- Computers and peripherals
- DVD players, satelliteT.V., larger televisions.
- Tumble dryers
- Etc, etc, etc.....

Further Carbon Reductions?

- Behavioural changes on the part of residents
- More stringent regulation of appliances, fittings, etc

- **The increased use of microgeneration in the home.....**