



Warwickshire Climate Change Partnership

The Carbon Hierarchy

1. Re-think - do you really need that new appliance in the first place? Is there a better energy option available?
2. Stop wasteful use of energy
 - a. Switch it off if you're not using it – only use what you need to
3. Use what you do need efficiently
 - a. Use more efficient equipment
 - b. Recover and re-use what you can e.g. heat recovery
4. Switch to low carbon supply: CHP, gas, bio-fuels, hybrids and biomass
5. Increase the % of renewables used
 - a. Increase on-site renewables
 - a. Biomass heating
 - b. Small wind
 - c. Solar Thermal
 - b. Green tariffs for long term supply contracts
6. Investigate options for offset schemes and costs of sequestration
 - a. Explore well managed verified and certified schemes

**REDUCE
ENERGY USE**

**IDENTIFY
OPPORTUNITIES TO
IMPROVE ENERGY
EFFICIENCY**

**ALTERNATIVE
FUELS**

**INVESTIGATE OPTIONS
TO MOVE TO LOW
CARBON AND
RENEWABLE ENERGY
SOURCES**

**GREEN
PLANTING**

**AIM TO BE CARBON
NEUTRAL THROUGH
CARBON OFFSETS AND
SEQUESTRATION**



**Warwickshire Climate Change
Partnership**

The Carbon Hierarchy – estimated 2005/6 prices

Scheme	£ Cost per tonne CO ₂ saved
Industrial wind turbines	33
Community wind turbines	36
Carbon Trust Allowed schemes 7.5 year payback	50
Biodiesel / bio-ethanol	60
Carbon Trust Allowed schemes 5 year payback	100
Domestic wood-fuelled boilers	101
Farmyard wind turbines	142
Community biomass combined heat and power (CHP district heating)	150
Micro wind turbines	153
Roof top solar hot water systems	155
Purchase of green electricity	201
Domestic micro CHP	433
Community gas fired CHP (district heating)	585
Domestic condensing boilers (do nothing option)	649
Solar Photovoltaics (PV)	672
References: Encraft, Carbon Trust and Carbon Neutral Cornwall	