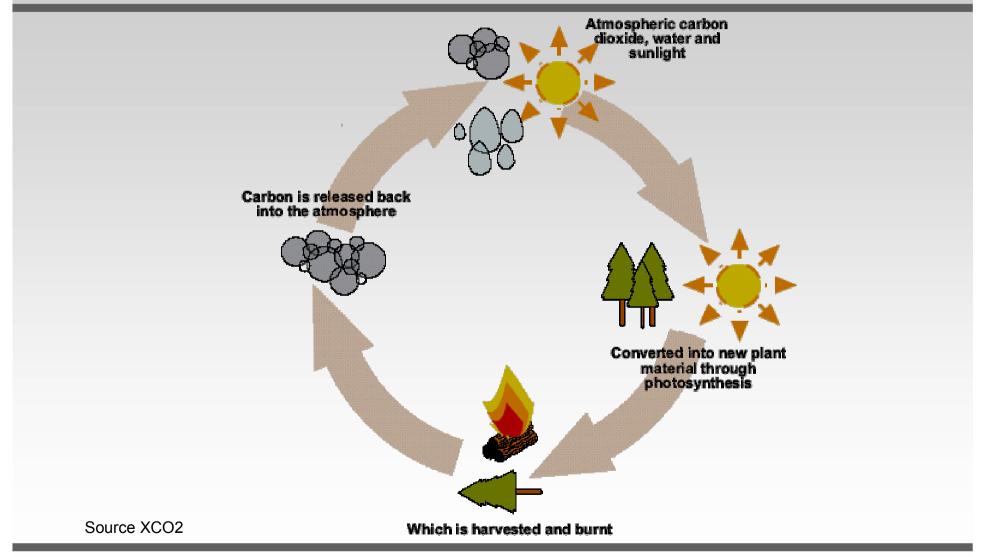


Wood Fuel Heating

Sandra Hayes Head of Training







- Logs from forestry, tree surgeons etc
- Woodchip from forestry or short rotation coppice (SRC) mainly of willow & poplar
- Pellets made from sawdust a byproduct from sawmills



- Up to 15kW, can have back boiler & radiators
- Poor turn down
- Efficiency 40-60%
- Appropriate to domestic applications
- Require daily attention
- Oxygen supply caused by chimney draft





- High calorific value
 4.8-5 kWh /kg
- Usually made from sawdust
- No or natural binders
- Low moisture content (6 -10%).
- High density.
- Consistent size (usually 6 or 8mm).





- Good turn down to 20%
- Wide of range units
- Some self igniting
- Manually fed from bags
- Produce warm air for space heating
- ½ Weekly maintenance





- Near automatic operation
- Excellent turn down and control
- Weekly to monthly maintenance
- 8-500kW
- Multi-fuel options available



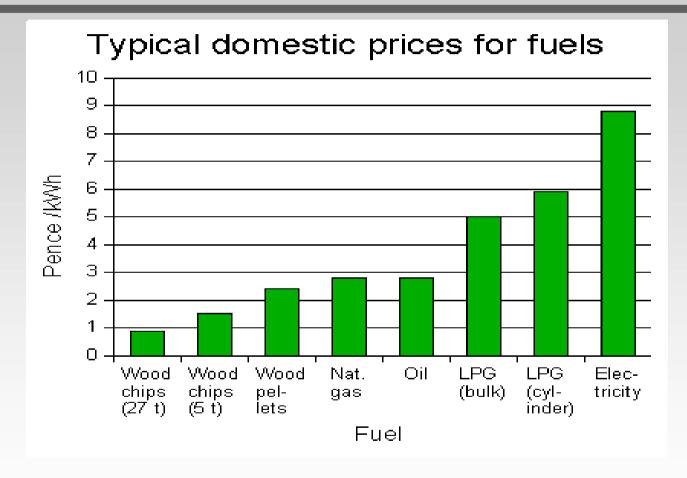


- Logs undercover, but open sides
- Pellets need 3 times the storage space of oil
- Pellets 1.5 cubic meters per tonne (4 bed house approx 6 tonnes)
- woodcnip 5 cubic meters per tonne
 (100kW boiler approx 30 tonnes) but consider moisture content
- 1:3:9



- Log Burner £400 plus
- Pellet Burner (Stove) £1500 plus installation - £2,500 to £3,000 installed
- Boiler depends on size 20kW householder system £5,000 to £8,000 installed





Courtesy Biomass Energy Centre www.biomassenergycentre.org.uk