

# 1. Minimising **energy** and removing carbon dioxide from the atmosphere

- **Solar passive house**

- Orientation on an east west axis with large windows facing north, smaller on the south.
- Full length heavy curtains
- Wooden pelmets
- Breezeways
- Windows wooden and double hung and two double glazed.
- Thermal mass - tiles on northern side of flooring and double brick wall up centre of house
- Excellent insulation, checking round door ways and windows
- Shade on west and east - canvas, shade cloth and deciduous trees
- Gas boosted solar hot water
- Cool cupboard - half finished
- Fans, no air conditioning.....unless acceptable technology comes on market
- Single natural gas space heater
- One day in the future - photovoltaics
- Where affordable materials with low embodied energy eg. mud brick gazebo, wooden framed windows...



- Windmill for pumping water to wetlands and fruit trees
- Growing own vegetables - saving fuel costs
- Keeping all organic matter on site—composting and mulching materials, saving fuel costs.
- Carbon sequestration—increasing organic content in soils by continually adding compost and mulch