

Sustainability Statement for Proposed bungalows at The Old Water Tower , Mangrove Road, Cockenhoe LU2 8QD

Energy and Carbon reduction

The proposed dwelling will be heated by an air source heat pump with wood burner back up
Solar panels will be provided to the South West facing roof pitches

Air conditioning will be provided

Insulation in excess of building regulation requirements will be provided to roof, walls and floor

High insulation windows and doors will be used

Low water use cisterns, basins, baths and showers will be installed

Orientation

North East / South West orientation is proposed with retention and encouragement to existing hedge growth to boundaries

Energy reduction

Air source heat pump

Wood burner

Solar panels

Very high levels of insulation

Low Carbon

High levels of insulation

Minimal thermal bridging

High levels of air tightness

Materials

The applicant is a builder and will source local materials and labour through his existing contacts

Climate change

High insulation levels

Air cross flow from North East to South West

Overheating

Very high levels of insulation

North East to South West cross flow of air

Air conditioning

Green infrastructure

Encouragement to boundary hedge growth

Existing landscape

Existing hedges and boundary trees to be retained and encouraged

All to be fence protected during construction

Green roofs

Rear and front pitches will have solar panels

Surface water run off

Water butts will be provided to down pipes to store water for garden watering and car washing