

Sustainability Statement for Proposed Dwelling at Old Foxes, Kelshall, SG8 9ES

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 East facing roof pitch
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

Main fenestration is West facing 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 materials supplier and will source local materials and labour through his existing contacts

Climate change

High insulation levels
Air cross flow from East to West

Overheating

Very high levels of insulation
East to 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

No flat roofs proposed
Rear pitch 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