

# Best Practice Approaches to Planning for Sustainability

APSE Scotland Renewables and Energy Efficiency Advisory Group

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Timothy Crawshaw MRTPI



## Planning for our Future

Embedding energy and climate change into local plan policies



Updates after time of writing...

## Fourth National Planning Framework: position statement

### A Plan for Net-Zero Emissions

- We will prioritise the types and locations of development that will help meet our emission reduction targets.
- We will build on the Climate Change Plan and take forward advice provided by the UK Climate Change Committee. The recommendations of the Just Transition Commission will also inform our actions.
- Our future places will be planned in a way that reduces the need to travel and builds in natural solutions.
- Our buildings will be more energy efficient and will be designed to be sustainable.
- We will actively facilitate decarbonised heating and electricity generation and distribution.

# Spatial Strategy

- Delivered through *regional* spatial strategies
- Integration of land use and transport
- Facilitate design solutions and innovation (more of this later)
- Promote nature-based solutions
- Deliver infrastructure to reduce emissions
  
- Integrated strategic planning (lucky you)

# Facilitate design solutions and innovation

We will ensure planning policies support the very significant reductions in emissions from buildings that we need to see. This is not just about new development – our existing buildings and places will need retro-fit solutions and we will make use of the embedded carbon across the built environment. Planning can facilitate low carbon methods of construction, which create a whole building approach to emissions including construction and decommissioning. We will support developments that make use of low energy and emission materials as well as natural and micro-climate features which reduce the resource demand of the development. We will align our strategy with Building Standards to create a consistent approach, and actively encourage buildings that go beyond current standards where there is appetite to do so. We will also enable and encourage deployment of renewable and zero emissions heating, including by facilitating development of the networks they require.

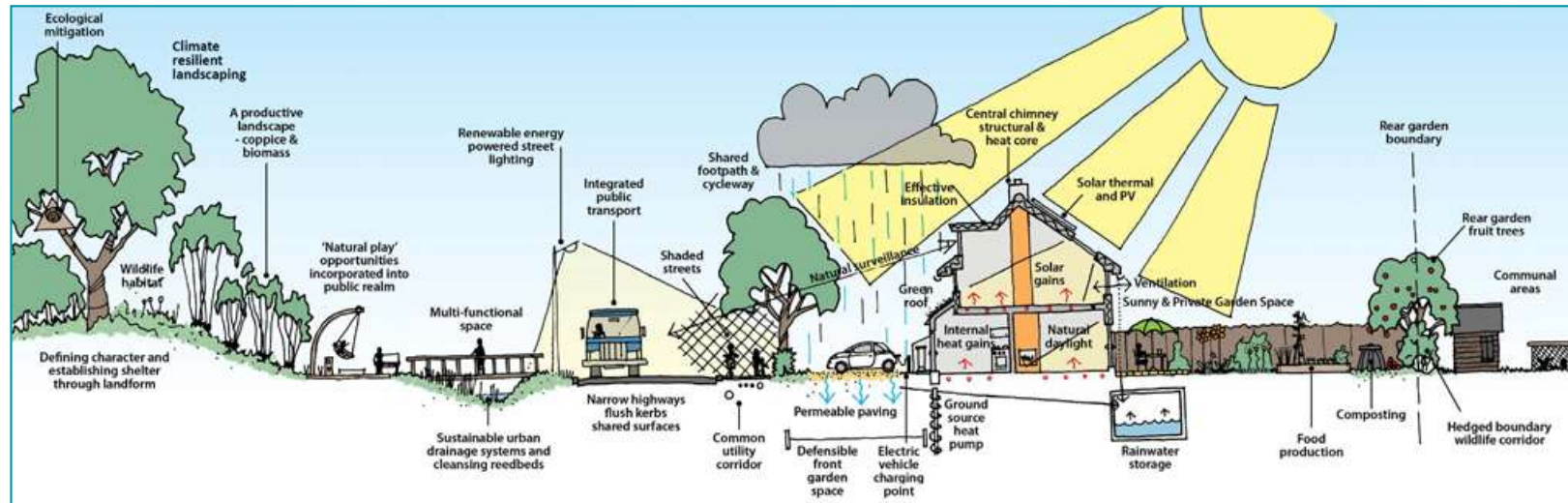
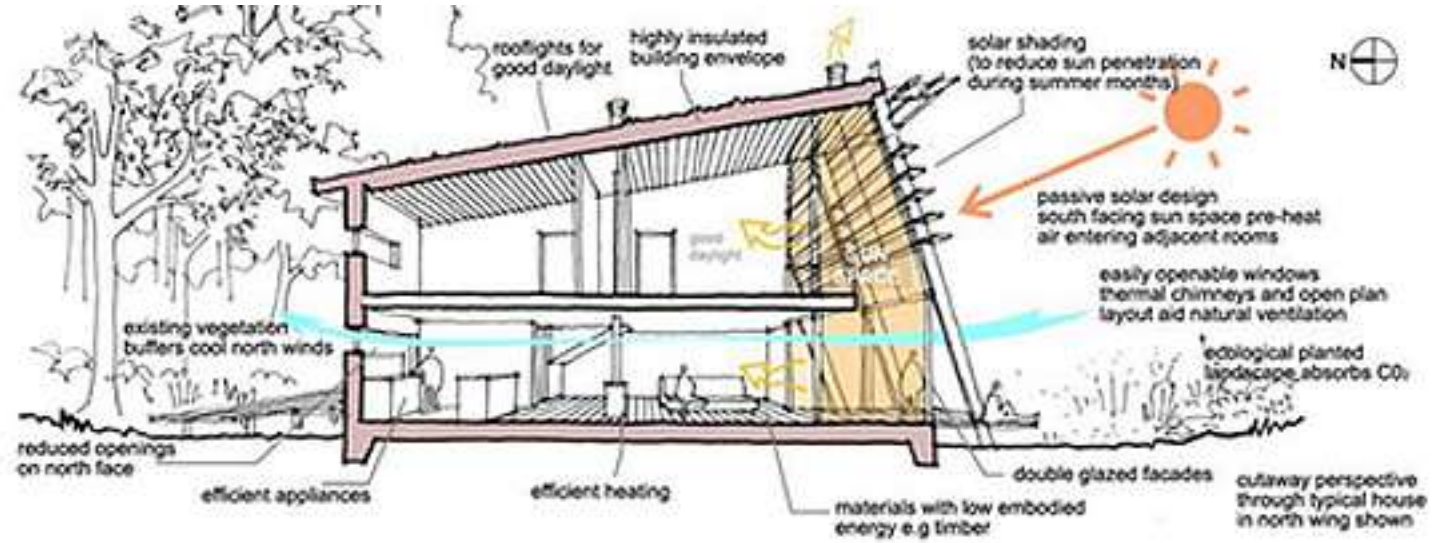


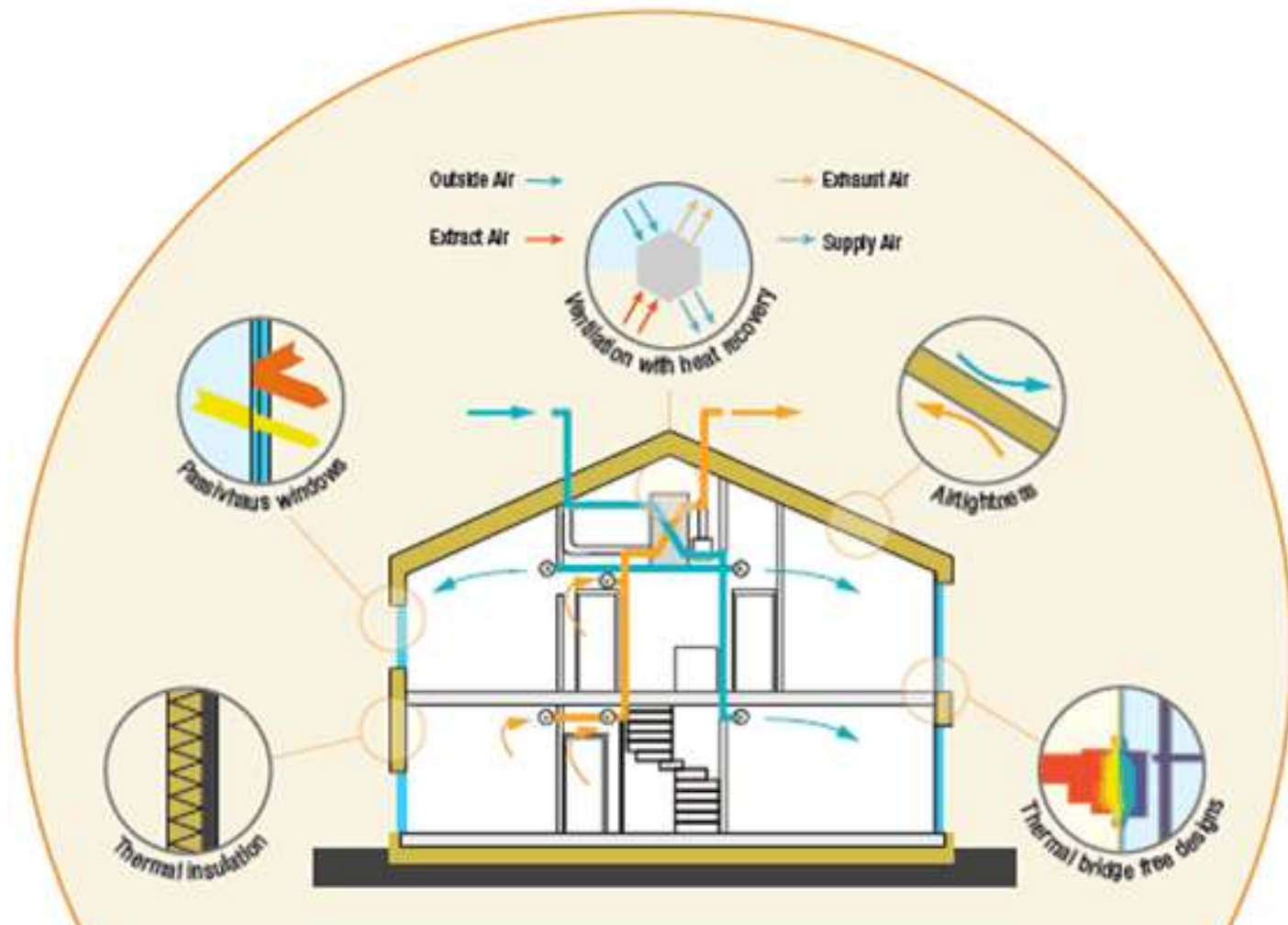




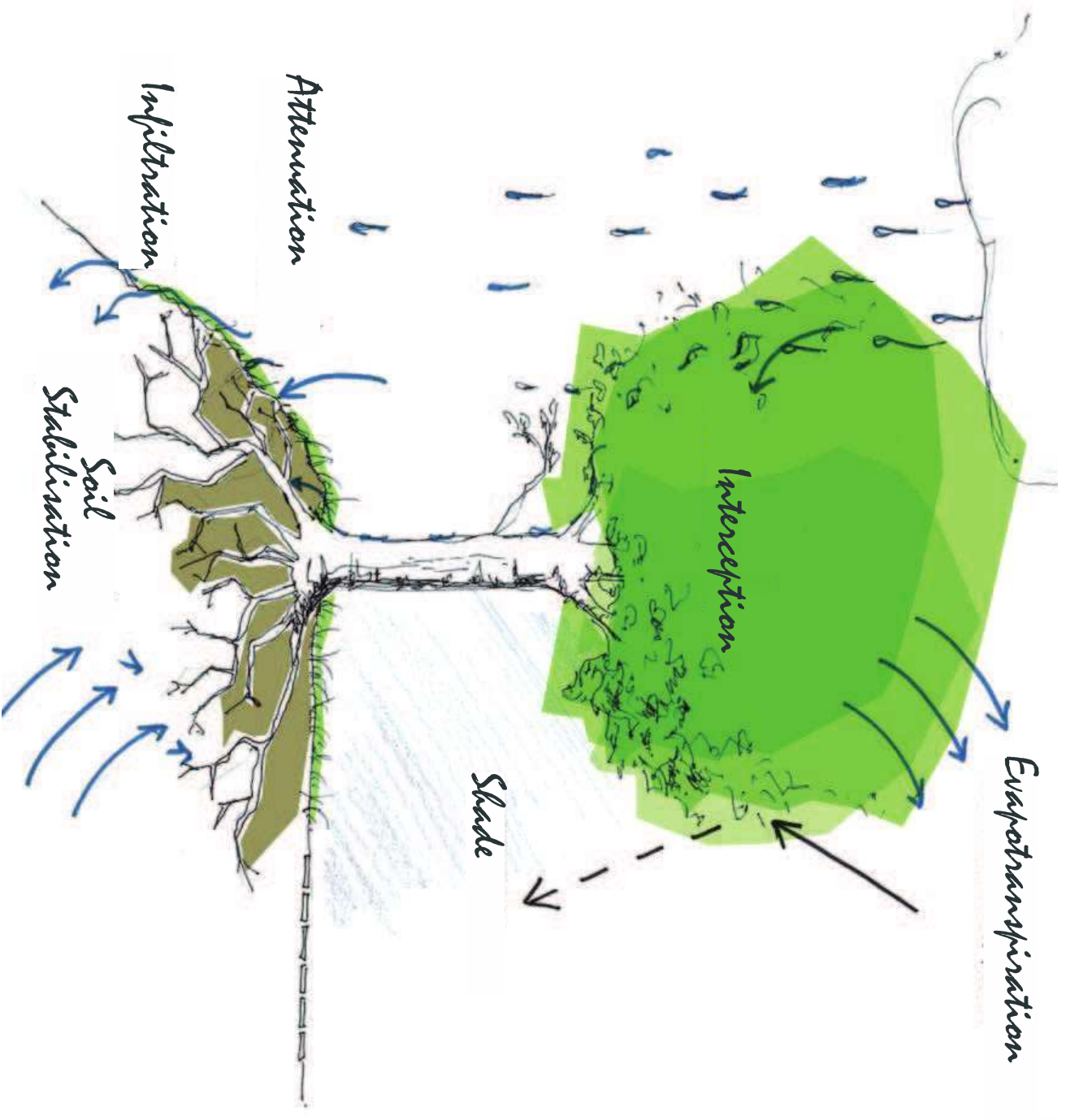








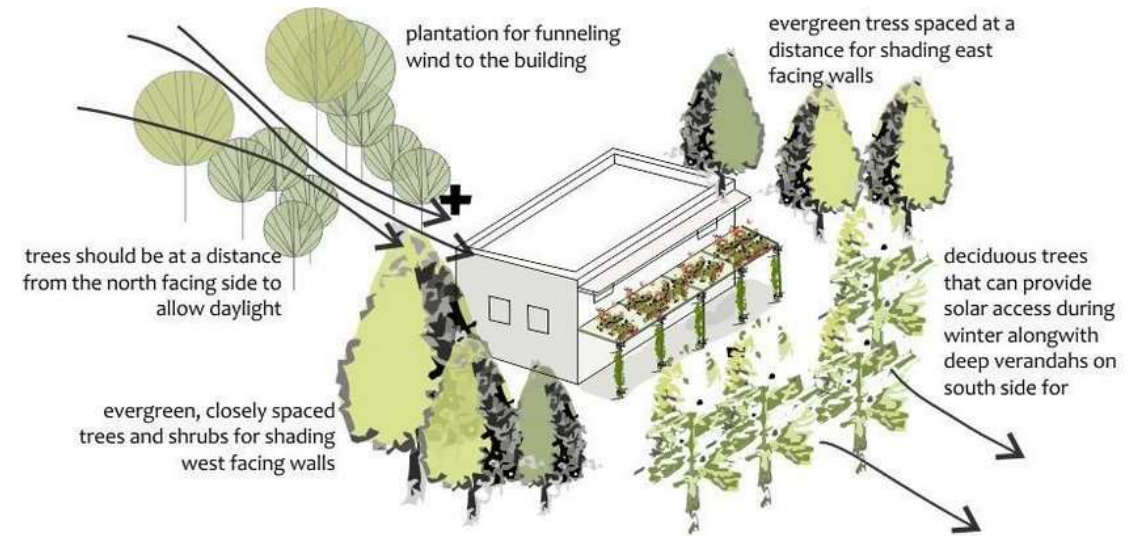
# 5 The five basic principles of Passivhaus



One adult tree = five air conditioning units working 20 hours/day = 11.4kWh of energy saved per day, amounting to 500 euros of energy cost saving per year (assuming a yearly energy consumption of 1000 kWh/yr)

# Key Considerations

- Orientation
- Sun path
- Landscaping (existing and proposed)
- Prevailing wind
- Site layout
- SuDS
- Water bodies
- Summer cooling





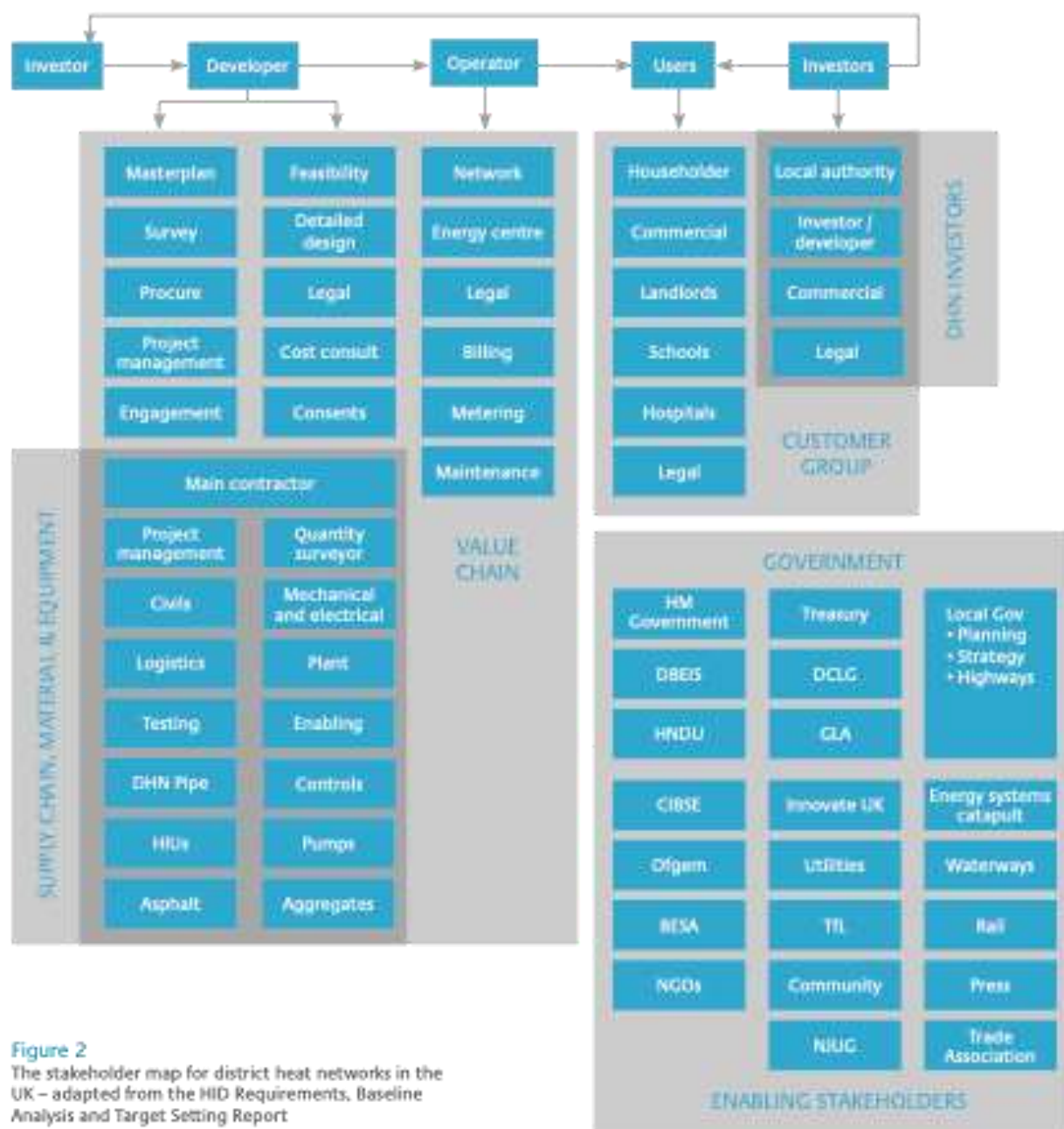


Figure 2  
The stakeholder map for district heat networks in the UK – adapted from the HID Requirements, Baseline Analysis and Target Setting Report

# Last Thoughts

- Energy is not separate from wider planning objectives
- Don't forget wider strategic priorities such as location, density and clustered services
- Gather as much data as possible about your local area – local character is important
- Link energy to other priorities such as design quality
- Get help from APSE Energy