



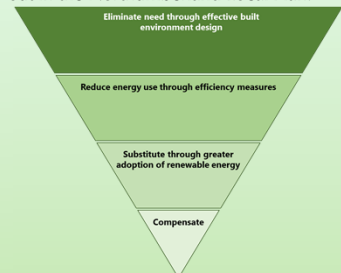
Renewable energy & climate change

Introduction

The village proposes an ambitious, but necessary, objective in relation to climate change and renewable energy:

To become a 'zero carbon' village by 2035.

Our overall approach to climate change is based on a hierarchy of objectives (see figure below) and reflects the policy set out in the Northumberland Local Plan.



Planning policies

Embedding energy efficiency and renewable energy into building design

New buildings, and extensions requiring planning permission, should be designed to minimise the use of energy and clean water. Proposals must be supported by sufficient information to demonstrate how they:

(a) incorporate passive design measures to improve the efficiency of heating, cooling, ventilation and lighting, with passive solar gain, ventilation and energy efficiency maximised;

(b) include measures to reduce the waste generated during construction and ensure that there is appropriate storage space and segregation facilities for recyclable and non-recyclable waste;

(c) ensure that energy and water efficiency measures are incorporated into the development;

(d) incorporate on site energy generation from renewable sources; and,

(e) reduce energy demands of historic buildings.

Modifications to listed buildings

The installation of energy saving measures, if sensitive to the reasons for the listing, will be strongly encouraged.

Environment & landscaping

Applications for planning permission will be required to show a landscaping scheme that encourages the use of planting and meadows and compensates for the footprint of the proposed development.

Sustainable drainage

Applicants for planning permission will be expected to investigate sustainable drainage from buildings, driveways and landscape features to mitigate the water flowing into surface water drainage.

Footpaths and cycle paths

New developments will be required to demonstrate how they reflect and support the policy to promote cycling and walking.



Community action

Renewable energy

Renewable and low carbon energy generation development that are led by or meet the need of the local community will be encouraged. Proposals for individual and community scale energy will be supported subject to the following criteria:

- the siting and scale of the development is appropriate to its setting and position in the wider landscape;
- the proposed development does not create an unacceptable impact on the amenities of local residents or on features of natural or biodiversity importance.

Goal: sustainable net zero – and beyond?

Objectives	Methods	Local aims	Planning policies
Eliminate energy use through design	Design code/ building regulations	All new homes to be zero carbon	Overarching low energy policy for new homes
	Reduce embodied carbon		
Reduce (current) energy use	More & better insulation	Encourage home improvement	Overarching low energy policy for new homes & planning applications, including listed buildings
	More efficient space & water heating (incl. heat pumps)	Address constraints preventing improvements to listed buildings	
		Encourage home improvement	
	Green(er) travel	More walking & cycling	Require provision in developments
		E-bikes	Require provision in new homes
		EV charging points	
Generate (and utilise) green energy	Reduce, reuse, recycle	More solar panels	Require provision in new homes
	Solar thermal/ photovoltaic		
	Hydro	Explore scope for community energy generation	Support proposals for renewables
	Wind		
	Electric power storage/ heat storage		
Compensate	Carbon capture	Tree planting	Require provision in developments



Goal: mitigate effects of climate change

Objectives	Methods	Local aims	Planning policies
Predict local effects	Geographical survey eg of flood plains and hillside water drainage	Predict likely risk of damage (tall buildings in high winds, isolated trees etc)	
	Gather climate data		
	Look at similar areas		
Prevent future problems	Consider "worse than worst case" scenarios (height of flood plain etc)	Design code/ building regulations	New developments to demonstrate water management/ heat management
	Urban planning (drainage/shade)	Water management policy	
	Design new houses to be cool and dry in summer and warm in winter		
Alter to withstand	Flood management/drainage		
	"Rebuild better" after eg storm damage		
	Tree planting to ensure species adapted to predicted weather		
	Add wind breaks		
Compensate	Reduce need to travel	Better broadband to allow working from home	