

Appendix A – Climate Change Statement

Climate Change Statement for Planning Applications

Part 1: Applicant details

Name of applicant/agent	Kavita Singh (Applicant)
Site Address	Ash Meadow East Avenue Lindley Huddersfield HD3 3LW
Description of Development	Erection of a detached supported-living dwelling with associated access, parking, landscaping and subdivision of existing residential curtilage at Ashmeadow.

Part 2: Climate Change Mitigation measures

Please respond to the following questions considering the measures set out in the Climate Change Guidance note:
Q1: What measures have been/will be taken to reduce the energy demand associated with your proposed development beyond the minimum required in Building Regulations? (See section 2)
<p>The proposed dwelling has been designed to achieve a high standard of energy efficiency through a compact and well-insulated building form, high-performance glazing and careful consideration of orientation and natural daylighting. The design seeks to maximise natural light and passive solar gain where appropriate whilst minimising unnecessary heat loss.</p> <p>The development is intended to incorporate energy-efficient building fabric and construction methods that will exceed minimum Building Regulation requirements where practicable. Low-energy lighting and energy-efficient building services are anticipated to be incorporated as part of the detailed design development.</p>
Q2: What measures have been/will be taken to limit the carbon consumed through the implementation and construction processes, e.g. by reusing existing on-site materials or sourcing materials locally? (See section 3)
<p>The proposal seeks to minimise construction impacts through a sensitive design approach that responds to the site constraints, including existing mature trees and landscape features. Existing site features and vegetation will be retained wherever possible to reduce unnecessary material removal and disturbance.</p> <p>Where feasible, materials will be responsibly sourced, including consideration of locally available materials and suppliers to reduce transportation impacts. The development has also been designed to minimise extensive excavation works through the use of no-dig construction principles in sensitive root protection areas associated with retained trees.</p>

Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (See section 4)

The development is intended to incorporate low-carbon technologies as part of the detailed design development. At this stage, it is anticipated that the dwelling may be served by an air source heat pump as the primary heating system.

The incorporation of renewable energy technologies, including the potential use of roof-mounted photovoltaic solar panels, is also being considered as part of the ongoing design process, subject to detailed design and heritage considerations associated with the Conservation Area setting.

Q4: What measures have been/will be taken to ensure the building design and layout has been optimised to energy efficiency beyond the minimum requirements in Part L of the Building Regulations ? (See section 5)

The proposed dwelling has been designed to optimise energy efficiency through its layout, orientation and compact built form. The design seeks to maximise natural daylight penetration and reduce reliance on artificial lighting whilst maintaining appropriate levels of thermal performance and occupant comfort.

The proposal incorporates high levels of glazing carefully balanced with insulated construction to improve energy performance whilst responding appropriately to the character of the surrounding Conservation Area. The dwelling has also been designed to provide adaptable and efficient long-term residential accommodation suitable for changing occupant needs over time.

Q5: What measures have been/will be taken to reduce potential impacts of flooding associated with your proposed development? (See section 6)

The site is considered to be at low risk of flooding. The proposal incorporates permeable and no-dig access arrangements where practicable, helping to reduce surface water run-off and minimise disturbance to existing ground conditions and tree root protection areas.

The development will utilise sustainable drainage principles where feasible, including permeable surfacing and soakaway drainage solutions subject to detailed drainage design and ground condition investigations.

Q6: What measures have been/will be taken to reduce water stress associated with your proposed development? (e.g. Water retention and minimisation measures) (See sections 7 and 8)

The proposal will seek to incorporate water-efficient fixtures and fittings to reduce potable water consumption. Sustainable drainage principles and permeable surfacing are also proposed to assist with water management and reduce unnecessary surface water run-off.

The retention of existing landscaping and mature vegetation across the site will further assist with natural water absorption and drainage. Additional water efficiency and retention measures may be incorporated during the detailed design stage where appropriate.

Q7: What measures have been/will be taken to provide biodiversity net gains? (See section 8)

The proposal seeks to retain the majority of the site's existing mature trees, hedgerows and landscaped character, which contribute positively to local biodiversity and the character of the Conservation Area. The development has been carefully designed around existing tree root protection areas and ecological constraints in order to minimise impacts on existing habitats.

An Ecological Appraisal has been undertaken in support of the application and biodiversity enhancement measures will be incorporated as part of the scheme. The proposal is also exempt from the statutory Biodiversity Net Gain requirement as a self-build/custom-build residential development comprising a single dwelling on a site below 0.5 hectares.

Q8: What measures have been/will be taken to reduce air pollution associated with your proposed development? (See section 9)

The proposal comprises a single dwelling within an established residential area and is therefore not anticipated to generate significant air quality impacts. The development is located within a sustainable urban location with access to existing local services and infrastructure.

The use of low-carbon heating technologies, such as a potential air source heat pump, together with energy-efficient building design measures, will assist in reducing operational emissions associated with the dwelling. Retention of mature trees and landscaping across the site will also contribute positively to local environmental quality and air quality.