

Appendix A – Climate Change Statement

Climate Change Statement for Planning Applications

Part 1: Applicant details

Name of applicant/agent	Agent: Transform Architects 4 Rushmead Court, Ossett, Wakefield, WF5 0NZ
Site Address	2023/92449 - Strines Lodge, Penistone Road, High Flatts, Huddersfield, HD8 8XU
Description of Development	Disability related extensions and alterations

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)
Enhanced Building Envelope: We will employ advanced insulation materials, high-performance glazing, and well-sealed building envelopes to minimize heat transfer and ensure efficient temperature regulation, reducing the need for space heating and cooling. High-Efficiency Lighting: LED lighting fixtures with intelligent controls, motion sensors, will be selected to minimize lighting energy consumption while ensuring well-lit spaces.
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)
Local Material Sourcing: To minimise transportation-related emissions, we will actively source construction materials from local suppliers whenever feasible. Locally sourced materials not only reduce carbon emissions associated with transportation but also support regional economies and reduce the overall environmental footprint. Waste Minimisation and Recycling: The construction site management plan will include waste reduction and recycling initiatives to minimise the amount of waste sent to landfills. Salvageable materials will be separated for reuse, and recycling facilities will be utilised for appropriate materials.
Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (See section 4)

If the budget allows post construction the development will feature solar photovoltaic (PV) panels strategically installed on rooftops, awnings, or other suitable surfaces. These panels will capture sunlight and convert it into clean electricity to power various building functions, reducing the reliance on fossil fuels and grid-supplied energy.

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)

Zoning and Thermal Separation: The building layout incorporates zoning strategies that group spaces with similar heating and cooling needs. This allows for precise temperature control in different zones, minimizing energy waste by avoiding over-conditioning of unoccupied areas.

Daylighting and Lighting Control: We will employed daylight-responsive lighting controls that adjust artificial lighting levels based on available natural light. This reduces the need for excessive artificial lighting during daylight hours, thereby conserving energy.

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

Site Analysis and Assessment: We are conducting a thorough site analysis to understand the hydrological conditions, including drainage patterns, soil permeability, and flood risk zones. This assessment guided our design decisions to avoid flood-prone areas and reduce vulnerability.

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)

Rainwater Harvesting: Our design will feature rainwater harvesting systems that capture and store rainwater from rooftops and other surfaces. This harvested water is repurposed for non-potable uses such as landscape irrigation, reducing demand on the municipal water supply.

Water-Efficient Fixtures: The development will include the installation of water-efficient fixtures such as low-flow sinks, dual-flush toilets, and water-saving showerheads. These fixtures reduce water consumption while maintaining user comfort.

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

Green Corridors and Connectivity: We will incorporate green corridors and wildlife corridors that connect natural areas within and around the development. These pathways facilitate the movement of species, ensuring genetic diversity and improving overall resilience of the local ecosystem.

Native Plant Landscaping: All new landscaping prioritises native plant species that provide food and shelter for local wildlife. These plants are adapted to the region's climate and require minimal maintenance, while also contributing to habitat creation.

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

Low-Emission Construction Equipment: During the construction phase, we are committed to using low-emission and electric construction equipment whenever possible. This reduces emissions of pollutants such as particulate matter, nitrogen oxides, and volatile organic compounds.

Dust Control Measures: Dust control measures are in place to prevent the dispersion of construction-related particulate matter into the air. These measures include water spraying, covering materials, and minimizing earth-moving activities during windy conditions.

Vegetation and Greenery: The incorporation of vegetation and greenery, including trees, shrubs, and green walls, helps absorb pollutants and improves air quality by reducing airborne particulates and absorbing gases.