

Appendix A – Climate Change Statement

Climate Change Statement for Planning Applications

Part 1: Applicant details

Name of applicant/agent	Mr Rakesh Mishra
Site Address	54 Woodlea Avenue, Huddersfield, Kirklees, West Yorkshire, HD3 4EF
Description of Development	The proposed development consists of the construction of a single-storey rear extension to the existing dwelling. The proposal also includes the conversion of the existing attached garage into a habitable room to be used as a lounge and home working space.

Part 2: Climate Change Mitigation measures¹

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)
The proposed development adopts a fabric-first approach in accordance with Section 2 of the Kirklees Climate Change Guidance (June 2021) : Measures include: <ul style="list-style-type: none">● High-performance thermal envelope:<ul style="list-style-type: none">○ Enhanced insulation to walls, floors, and roof exceeding Part L requirements○ Low U-value construction materials● Installation of high-performance double/triple glazed windows with low emissivity coatings● Airtight construction detailing to minimise heat loss● Energy-efficient LED lighting throughout● Efficient heating controls with programmable thermostats● Maximising natural daylight through large rear glazing to reduce artificial lighting demand These measures collectively reduce operational energy demand and improve thermal efficiency.
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)

In line with Section 3 of the **Kirklees Climate Change Guidance (June 2021)**:

- **Reuse of existing structure:**
 - Garage retained and converted, reducing embodied carbon from demolition and new build
- Local sourcing of materials where feasible to reduce transport emissions
- Efficient material usage and standardised construction methods to minimise waste
- Segregation of waste streams for recycling during construction
- Selection of durable, low-maintenance materials with long lifecycle

This approach reduces embodied carbon and aligns with sustainable construction practices.

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

In accordance with Section 4 of the **Kirklees Climate Change Guidance (June 2021)**:

- Roof design allows for **future installation of solar photovoltaic (PV) panels**
- Energy-efficient gas boiler or low-carbon heating system (subject to final specification)
- Consideration of **air source heat pump** as a low-carbon alternative (if feasible)

Although not a large-scale development, the proposal incorporates **future-proofing for renewable technologies**.

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)

In line with Section 5 of the **Kirklees Climate Change Guidance (June 2021)**:

- Rear extension designed to:
 - Maximise solar gain through rear-facing glazing
 - Improve daylight penetration into the dwelling
- Habitable spaces positioned to benefit from natural light and passive heating
- Use of thermal mass in construction materials to regulate internal temperatures
- Natural ventilation via openable windows to reduce overheating risk

The layout optimises passive environmental performance beyond minimum regulatory standards.

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

In accordance with Section 6 of the **Kirklees Climate Change Guidance (June 2021)**:

- The development is small-scale and located within an established residential plot
- No significant increase in impermeable area beyond existing conditions
- Surface water managed via:
 - Existing drainage systems
 - Permeable external surfaces where practicable²

- The proposal does not increase flood risk on or off-site³

Given the scale, a full FRA is not required, but **SuDS principles are incorporated where feasible.**

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)

In line with Sections 7 & 8 of the **Kirklees Climate Change Guidance (June 2021)**:

- Installation of water-efficient fixtures:
 - Dual flush toilets
 - Low-flow taps and showers
- Use of water-efficient appliances
- Provision for external water butt / rainwater collection
- Minimisation of water demand through efficient design

These measures reduce potable water consumption.

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

In accordance with Section 8 of the **Kirklees Climate Change Guidance (June 2021)**:

- Retention of existing garden area where possible
- Soft landscaping maintained and enhanced
- Opportunity for:
 - Native planting
 - Garden planting to support pollinators
- No significant loss of ecological value

Given the domestic scale, **biodiversity is preserved and modestly enhanced.**

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

In line with Section 9 **Kirklees Climate Change Guidance (June 2021)**:

- Use of local materials to reduce transport emissions
- Energy-efficient systems reducing operational emissions
- No significant increase in traffic generation
- Retention of residential use (no intensification of pollution sources)

The proposal has **negligible impact on local air quality.**