CLIMATE CHANGE STATEMENT

location	159 Lowerhouses Lane, Lowerhouses, Huddersfield, HD5 8JZ.
application	Erection of First Floor Extension, Rear Infill Extension, Rebuilding of Existing Garage to form Accommodation and Alterations to Dwelling
client/applicant	Mr & Mrs S Pearce-Davies
job number	24/1010
date	June 2024

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Part 1: Applicant details

Name of applicant/agent	Agent – Paul Matthews Architectural Applicant – Mr & Mrs S Pearce-Davies
Site Address	159 Lowerhouses Lane, Lowerhouses, Huddersfield, HD5 8JZ.
Description of Development	Erection of First Floor Extension, Rear Infill Extension, Rebuilding of Existing Garage to form Accommodation and Alterations to Dwelling

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)
The works are subject to a Building Regulations application where compliance will be required. The property is outdated and very energy inefficient. The proposals include various aspects to enhance the thermal efficiency of the property in an energy efficient way
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)
Contractors and materials will be sourced locally, wherever possible.
Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (See section 4)

Materials to be used on the project (concrete, brickwork, timber, concrete tiles and blockwork) are wholly recyclable
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)

Refer to the plans re proposals; • First floor providing a good level of thermal insulation above and beyond the current configuration • Low water consumption appliances • Low energy lighting • New insulated cavity walls to the whole of the first floor provide a massive thermal enhancement to the whole property
Q5: What measures have been/will be taken to reduce potential impacts of flooding associated with your proposed development? (See section 6)
Flood risk does not apply to this application
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)
New sanitaryware appliances will have restricted flow rates.
Q7: What measures have been/will be taken to provide biodiversity net gains? (See section 8)
A Woodstone built-in Swift bird box can be incorporated within the development below eaves Level.
Q8: What measures have been/will be taken to reduce air pollution associated with your proposed development? (See section 9)
An EVCP can be integrated into the proposals, on the store adjacent to the parking area. The provision of external cladding to the new first floor cavity walls and the new thermally insulated roof go a long way to reduce the carbon footprint of the property.

Appendix B – Further information

Kirklees Local Plan
The development plan for the Kirklees Council area (www.kirklees.gov.uk/localplan)

Planning applications guidance and advice notes
https://www.kirklees.gov.uk/beta/planning-applications/guidance-and-advice-notes.aspx

Air Quality and Pollution:
Kirklees Council's website has information on sources of pollution and our Air Quality Management Areas.
https://www.kirklees.gov.uk/beta/crime-and-safety/air-pollution.aspx

Building Design and Layout:
The Construction Industry Research Information (CIRIA) publishes guidance on various construction issues, including building and construction technology and sustainability and the built environment.
www.ciria.org.uk

Information on environmentally friendly construction products can be found from the Royal Institute of British Architects product selector website.
www.ribaproductselector.com

Passivhaus Trust provides guidance for designing for increasing summer temperatures and constructing buildings to a high energy efficient standard using a quality assurance approach.
https://www.passivhaustrust.org.uk/guidance.php

Construction Materials and Techniques:
Information on environmentally friendly construction products can be found from the Royal Institute of British Architects product selector website.
www.ribaproductselector.com

The UK Green Building Council provides information on sustainable building techniques.
https://www.ukgbc.org/

The Building Research Establishment (BRE) Environmental profiles website provide information about sustainable design, energy conservation measures and building materials and components.
www.bre.co.uk

The Construction Industry Research Information (CIRIA) publishes guidance on various construction issues, including building and construction technology and sustainability and the built environment.
www.ciria.org.uk

Production information on certified timber and timber products is available from the Forest Stewardship Council.
https://www.fsc-uk.org/en-uk

Historic England provides advice on energy efficiency and renewable energy in Historic buildings.
https://historicengland.org.uk/advice/your-home/saving-energy/

Passivhaus Trust provides information on Passivhaus buildings and standards.
https://www.passivhaustrust.org.uk/

Carbon Emissions:
The Carbon Trust promotes low carbon technology and gives information on how to work out carbon emissions associated with energy use.
www.thecarbontrust.co.uk

The Energy Saving Trust provide advice on renewable energy, energy efficiency and conservation.
www.est.org.uk

Information on combined heat and power and community heating is available from the Combined Heat and Power Association.
www.chpa.co.uk

The National Energy Foundation gives information on energy conservation, energy efficiency and renewable energy technologies.
www.nef.org.uk

Waste Minimisation:
Kirklees Council Waste Management Design Guide for New Developments (www.kirklees.gov.uk/beta/planning-applications/pdf/waste-management-design-guide-new-developments.pdf)

The Building Research Establishment (BRE) has produced a practical guide for small builders to help them reduce waste and operate more sustainably.
https://www.bresmartsite.com/sustainable-construction-methods/

The Construction Industry Research Information (CIRIA) publishes guidance on various construction issues, including aggregate recycling.
www.ciria.org.uk

Flooding and Drainage:
Government guidance on flood resilient construction of new building.
https://www.gov.uk/government/publications/flood-resilient-construction-of-new-buildings

Calder Valley Strategic Flood Risk Assessment (SFRA):
https://www.calderdale.gov.uk/v2/sites/default/files/strategic-flood-risk-assessment_0.pdf