

Climate Change Statement

Church of the Holy Innocents, Vicarage Rd, Dewsbury, WF12 9PD

Part 1: Applicant details

Name of applicant/agent	SCI Property Ltd
Site Address	Church of the Holy Innocents, Vicarage Road, Dewsbury, WF12 9PD
Description of Development	The conversion of an existing Grade II listed church building into residential accommodation

Part 2: Climate Change Mitigation measures

<p>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?</p> <p>The following measures will be implemented or considered at technical design stage;</p> <ul style="list-style-type: none"> • Internal rooms formed in insulated walling to create individual thermal 'boxes' which will reduce fabric heat loss between internal room thus reducing energy consumption. Rooms will have individual heating controls for flexibility. • Consideration given to ascertain if a micro-CHP system (Combined Heat and Power) will be suitable for a grade 2 listed building. • Installation of smart energy meters which include displays showing the amount and cost of energy consumed • Energy efficient white goods will be specified where appropriate. • Ensuring that building service controls ie lighting and gas boiler controls, and management systems are user friendly, efficient, up to date, and complementary. • Full instruction manuals & tutorials for residential occupiers will be provided/undertaken to ensure home owners understand how the systems operate at their most efficient level.
<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?</p> <p>The following measures will be implemented where practically possible;</p> <ul style="list-style-type: none"> • Demolition: Demolition has been limited to 0.3% of the building volume. • Construction waste management: The site waste manager would report to the contract manager and would be responsible for overall waste management issues arising from the project. These would include : <ul style="list-style-type: none"> ○ Implementation and monitoring of waste minimisation, segregation and safe disposal measures. ○ Dissemination of waste reduction and waste management procedures to all relevant personnel on site. ○ A variety of different materials will be used for construction of the development. The project also involves removal of existing buildings and services which will produce waste materials. ○ A key requirement for the contractor would be to manage waste production throughout the construction period. Sustainability is likely to be one of the selection criteria for suitable contractors for the project. Waste management will comply with Waste Management regulations 2008 ○ The key to minimising the production of waste is to implement the waste hierarchy of reduce, reuse, recycle, dispose. Reducing the amount of materials used also has the effect of minimising use of natural resources and reducing costs. Careful management and phasing of the development will ensure that this is the case.

- Superfluous design elements have been designed out to minimize the use of construction materials. The existing structure will be retained untouched as far as practically possible.
- Materials use in construction will be sourced from local suppliers wherever possible.
- Materials will be of good quality and robust nature where practical to limit maintenance and replacement.
- All timber shall be from sustainable Forest Stewardship Council (FSC) sources.
- Consideration will be given to the impact of incorporating home composting units.

Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources?

The opportunity to incorporate renewable technology will be limited by the existing building, existing grounds & grade II listing. This technology will be considered with the mechanical & heating specialist at tender stage to see if any can be incorporated into the development.

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 ?

The scope for building design & layout to influence the energy efficiency is limited by the existing building form, existing grounds & grade II listing.

Where practically possible energy efficiency will be promoted via:

- Extra insulation within internal walls & floors to break the residential units down into numerous internal thermal zones. These zones will have thermostatic controls to maximise flexibly on heat/power consumption.
- High efficiency heating boilers with zone temperature control
- Where safe to do so low energy lights and lighting controls to automatically switch off will be considered.

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

Flood risk of the existing site is very low due to its location. Additional load on surface water systems from this development is limited to the carpark area only. Once a ground investigation has been undertaken the viability of suds system will be assessed and incorporated if practical.

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

Water usage will be minimized by incorporating the following were practically possible;

- Installation of low-flush toilets and dual-flush toilets reduce water usage
- Installation of Spray and low-flow taps reduce the amount of water used.
- Installation of Showers to use less water than baths. Use of low volume baths where appropriate
- Installation of low water use washing machines and dishwashers
- Ensuring the residents are more aware of the cost of water
- Rainwater harvesting & grey water recycling will be considered.

Q7: What measures have been/will be taken to provide biodiversity net gains?

Refer to BNG report submitted with the application.

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

The following will be incorporated where practically possible;

- Locally source materials to reduce transport emissions
- Installation of mechanical ventilation systems due to the limited availability to vent the building through natural means.