

Climate Change and Sustainability Statement for New Build Proposal Introduction In alignment
with our commitment to sustainability and the mitigation of climate impacts

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This statement delineates the comprehensive strategies and measures that have been incorporated into the proposed development. These measures are designed to adhere strictly to the guiding principles of policies CS16 and CS17, which advocate for a structured approach to carbon emissions reduction through elimination, reduction, substitution, and offsetting.

Furthermore, our strategies are in strict compliance with the National Planning Policy Framework (NPPF) 2023 policies, specifically SP1, which emphasizes sustainable development and the urgent need to address climate change across all levels of planning. Elimination and Reduction of Carbon Emissions Our proposal initiates the carbon reduction process at the design phase, focusing on the elimination and reduction of emissions.

1. The architectural design prioritizes energy efficiency, maximizing natural light and optimizing thermal performance to significantly lower energy demands. The building's orientation, insulation materials, and window-to-wall ratio have been selected based on detailed energy modeling to ensure minimal heat loss in winter and reduced cooling needs in summer.

 2. Material Selection and Carbon Reduction:
 - Low-Carbon Materials: We have prioritized materials with low embodied carbon across all stages of construction. This includes the use of recycled steel, sustainably sourced timber, and low-carbon concrete alternatives. Our selection process involved a detailed analysis of the lifecycle carbon footprint of materials, ensuring that our choices align with our carbon reduction ethos.
 - Local Sourcing: To further reduce the carbon footprint associated with transportation, we have committed to sourcing materials from local suppliers wherever feasible. This not only supports the local economy but also significantly reduces transportation emissions.
- Substitution In areas where elimination or reduction of carbon emissions is not feasible, we have explored substitution options. This includes the installation of high-efficiency HVAC systems that utilize renewable energy sources, thus substituting traditional fossil fuel-based systems. Our electrical infrastructure is designed to be fully compatible with renewable energy, paving the way for a transition to solar or wind energy as they become available. Recognizing that some emissions are currently unavoidable, we have developed a robust offsetting strategy. This includes the investment in renewable energy projects and reforestation initiatives that are verifiable and have a direct impact on carbon sequestration. Our aim is to achieve a net-zero carbon footprint for the development, in line with policy CS17's objectives.
- Water Usage Reduction In accordance with NPPF 2023 policy SP1, our development incorporates innovative measures to reduce water usage during occupation:

- **Water-Efficient Fixtures:** All plumbing fixtures, including toilets, faucets, and showerheads, are high-efficiency models, significantly reducing water consumption without compromising user experience.
- **Rainwater Harvesting:** We have integrated a rainwater harvesting system to collect and use rainwater for landscaping and non-potable water uses, further reducing the demand on the municipal water supply.
- **Landscaping Choices:** The selection of native and drought-resistant plant species for landscaping minimizes the need for irrigation, reducing water usage and supporting biodiversity.

Conclusion Our development proposal represents a holistic approach to sustainability, addressing climate change through innovative design, material selection, energy efficiency, and water conservation measures. By adhering to the principles outlined in policies CS16, CS17, and the NPPF 2023 policy SP1, we ensure that our development not only contributes to the mitigation of climate change but also sets a benchmark for sustainable development in the region.