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mechanical & electrical services

VALLDATA HOUSE, MELKSHAM

ENERGY STRATEGY STATEMENT – JUNE 2026

energy strategy statement.

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1.00 Introduction.

This Energy Strategy Statement is submitted in support of a planning application for the proposed extension of Valldata House in Melksham. The proposed strategy aligns with Wiltshire Core Strategy Policy 41, which promotes energy efficiency and low-carbon development, exceeding the requirements of Part L of the Building Regulations.

2.00 Fabric-First Approach.

The design has adopted a fabric-first approach, which emphasises the importance of the building envelope in achieving energy efficiency. This approach ensures that the offices benefit from:

- **High-performance insulation:**

Walls, roof and floor constructions will feature enhanced insulation levels that surpass the minimum U-value requirements set by Part L of the Building Regulations.

- **Optimised glazing:**

Windows and doors will incorporate low U-value glazing to minimise heat loss whilst maximising solar gain, where appropriate.

- **Airtight construction:**

The extended building is designed to achieve very low air leakage rates, significantly below the maximum permitted levels, ensuring that the internal environment remains comfortable and energy-efficient throughout the year.

3.00 Compliance with Building Regulations.

The proposed offices exceed the requirements of Part L of the Building Regulations:

- **Part L (Conservation of Fuel and Power):**

The energy efficiency measures integrated into the design result in offices that significantly outperform the target emission rate, demonstrating the building's exemplary performance in reducing carbon emissions.

4.00 Low-Carbon Heating, Cooling and Ventilation.

The office spaces will be heated and cooled using highly efficient variable refrigerant flow air source heat pump systems. This system is designed to:

- **Provide low-carbon heating and cooling:**

The heat pump operates efficiently to reduce the building's carbon footprint, with very high coefficient of performance, greatly reducing electrical demand over a direct electric solution.

The offices will also incorporate an Air Handling Unit with Heat Recovery system, which will:

- **Enhance air quality:**

The AHU system optimises indoor air quality by continuously supplying fresh air while recovering heat from exhaust air, maintaining good indoor air quality while reducing ventilation heat losses.

5.00 Lighting.

The proposed offices will incorporate energy-efficient lighting throughout, with fixed fittings designed to meet the efficacy requirements of Building Regulations Approved Document Part L. High-efficiency LED luminaires will be installed in all internal areas to minimise electricity demand and associated carbon emissions. Any external lighting will be low-energy and controlled through timers or motion/daylight sensors where appropriate to reduce unnecessary energy consumption.

6.00 Conclusion.

The proposed new offices represent a commitment to sustainable design and energy efficiency. By adopting a fabric-first approach, exceeding regulatory requirements and integrating cutting-edge energy solutions, the offices not only meet but surpass current standards for environmental performance.

This energy statement supports the planning application and demonstrates that the proposed offices will be part of a high-performance, sustainable development that reduces carbon emissions and promotes energy efficiency.