



Places For Everyone (PfE) Statements

At

Address: Unsworth Primary School
Blackley Close, Unsworth, Bury, Lancashire BL9 8LY



1. JP-S2: Carbon and Energy

1.1. Introduction

This Energy Statement has been prepared to demonstrate how the proposal will comply with Policy JP-S2. The policy mandates sustainable design and energy efficiency in developments, aiming to reduce carbon emissions and support climate change mitigation.

1.2. Sustainable Design and Energy Efficiency Principles

The design of the school extension, classroom change of use and new car park formation will focus on the following key sustainable energy practices:

- **Fabric Energy Efficiency:** The proposal will be designed to exceed minimum Building Regulations in terms of thermal insulation, ensuring a high level of energy efficiency and reducing heating demands. This will be achieved by utilising high-performance insulation materials in walls, floors, and roofs, and by specifying energy-efficient windows and doors.
- **Energy Efficient Lighting:** The lighting design will incorporate energy-efficient LED lighting throughout the building and external areas. Motion sensors and daylight sensors will be installed to reduce unnecessary energy consumption, especially in classrooms and hallways.
- **Heating and Cooling Systems:** The proposal will utilise energy-efficient heating systems, such as underfloor heating powered by high-efficiency gas boilers or low-carbon alternatives, like air-source heat pumps, where applicable. Passive ventilation strategies will be employed to minimise reliance on mechanical cooling.
- **Natural Daylight Utilisation:** The design will prioritise the use of natural light through large windows and skylights, reducing the need for artificial lighting during daylight hours.

1.3. Low and Zero Carbon Technologies

In accordance with Policy JP-S2, the project will explore the integration of low and zero carbon technologies:

- **Solar Panels:** The feasibility of a photovoltaic (PV) solar panel system to be installed on the roof of the school extension to provide renewable energy and reduce reliance on grid electricity will be assessed and evaluated. If feasibly and economically viable this system will be sized to maximise energy generation and contribute to the school's operational needs.

- Rainwater Harvesting: To reduce water consumption and minimise the environmental impact, a rainwater harvesting system will be looked into being installed to collect and store rainwater for use in non-potable applications such as irrigation and toilet flushing.

1.4. Transport and Car Parking

The proposed car park development will integrate energy-efficient principles, particularly in the provision of electric vehicle (EV) charging stations:

- Electric Vehicle Charging Points: A sufficient number of EV charging points will be included in the car park design to encourage the use of electric vehicles by staff, parents, and visitors. This will contribute to reducing carbon emissions associated with fossil fuel-powered vehicles.
- Sustainable Transport Links: The development will also promote alternative modes of transportation by ensuring access to safe walking and cycling routes, encouraging staff and visitors to use sustainable transport options rather than relying on private car usage.

1.5. Carbon Emission Reduction

The development aims to meet or exceed the carbon reduction targets set by the local planning authority and national guidelines. A detailed energy model will be produced if required to calculate the predicted energy usage and carbon emissions from the extension, change of use and the car park. Measures will be implemented to reduce the carbon footprint by:

- Reducing overall energy demand through efficient building design.
- Incorporating renewable energy systems (e.g., PV solar panels).
- Encouraging the use of low-carbon transport options.

1.6. Conclusion

The proposal will comply with Policy JP-S2 by implementing high standards of energy efficiency and sustainability. The project will incorporate renewable energy sources, promote low-carbon transport, and reduce the environmental impact through the use of energy-efficient building systems. These measures will not only ensure compliance with the policy but also contribute to Bury Council's commitment to reducing carbon emissions and supporting sustainable development.

This document provides a framework for how the project would meet the energy requirements of Policy JP-S2, but further details and calculations (e.g., the size of PV panels, energy models) may be needed during the post appointment further detailed design stage and following planning approval

2. JP-C2: Digital Connectivity

2.1. Introduction

This Digital Connectivity Statement has been prepared to demonstrate how the proposal will comply with Policy JP-C2. The policy emphasises the need for high-quality digital infrastructure and connectivity in new developments, ensuring that both the school and the wider community benefit from advanced, future-proof connectivity.

2.2. High-Speed Internet Connectivity

The proposed development will ensure the provision of high-speed internet infrastructure, enabling access to fast and reliable broadband for both the school and its staff, as well as for parents, students, and visitors.

- **Fibre Optic Broadband:** The new structure and nursery will be connected to high-speed fibre optic broadband, providing sufficient bandwidth to support the needs of modern educational activities, including e-learning, digital classrooms, and administrative functions.
- **Future-Proofed Infrastructure:** The development will include the installation of the necessary infrastructure to support future upgrades to broadband speeds, ensuring that the building remains equipped to handle increasing digital demands over time.

2.3. Wi-Fi and Wireless Connectivity

To ensure seamless connectivity throughout the new structure and nursery and the surrounding areas, including the car park, the following measures will be implemented:

- **Wireless Access Points (WAPs):** A robust Wi-Fi network will be installed across the entire development, with strategically placed wireless access points to ensure full coverage throughout the school building and outdoor areas. This will support both educational and administrative staff, as well as students.
- **Scalable Network:** The wireless network will be designed to be scalable, allowing for future expansion if needed, to accommodate increasing numbers of devices (such as laptops, tablets, or interactive whiteboards) as digital learning continues to evolve.

2.4. Smart Technologies and Digital Learning

The proposed new structure and nursery will be equipped with smart technologies that enhance the teaching and learning environment, supporting Policy JP-C2's goal of promoting digital literacy and enhancing educational outcomes.

- **Interactive Whiteboards and Smart Boards:** The new classrooms in the extension will feature interactive whiteboards or smart boards that will connect to the school's Wi-Fi network, enabling interactive lessons and digital resources to be integrated into the teaching process.
- **Device Integration:** The design will accommodate easy integration of student devices, such as tablets and laptops, ensuring that all digital tools are seamlessly supported within the classroom environment.

2.5. Car Park Connectivity and Electric Vehicle (EV) Charging

The car park will also include provisions for digital connectivity to support the adoption of electric vehicles (EVs) and other connected technologies.

- **Electric Vehicle (EV) Charging Points:** The car park will be equipped with EV charging points that will support the growing use of electric vehicles among staff, parents, and visitors. These points will be connected to the school's digital infrastructure to allow for real-time monitoring and management.
- **Smart Parking Systems:** A smart parking system may be implemented to optimise parking space usage. This system could provide real-time information on available spaces, reducing congestion and improving the overall visitor experience.

2.6. Security and CCTV Systems

The school extension and nursery will be equipped with advanced digital security features, including:

- **CCTV Cameras:** High-definition CCTV cameras will be installed at key locations around the school extension and the car park, connected to the school's secure digital network. These cameras will provide live monitoring and recording to ensure safety and security for students, staff, and visitors.
- **Digital Access Control:** Digital access control systems will be installed at entry points to the school, allowing staff and authorised visitors to securely enter the premises using smartcards or biometric access, enhancing safety and reducing unauthorised access.

2.7. Sustainability and Smart Building Integration

In line with the commitment to sustainability, the proposal will incorporate smart building technologies to optimise energy usage and reduce operational costs:

- **Building Management System (BMS):** A BMS will monitor and control the building's energy usage, including lighting, heating, and ventilation, ensuring that energy consumption is minimised and efficient.
- **Smart Lighting:** Automated lighting systems, with presence sensors and daylight sensors, will be incorporated to adjust the lighting levels based on occupancy and available natural light.

2.8. Conclusion

The proposed primary school extension, change of use and car park development will fully comply with Policy JP-C2 by incorporating state-of-the-art digital infrastructure and connectivity. High-speed internet, wireless connectivity, smart technologies, and EV charging infrastructure will ensure that both the school and the wider community benefit from a modern, efficient, and future-ready digital environment. This approach will support the delivery of quality education, enhance operational efficiency, and promote sustainability, in line with the goals of Policy JP-C2.

This statement outlines how the development will meet digital connectivity requirements but may be further refined as specific technical details and design plans are developed.