

Worsbrough Common Primary School - Sustainability Statement

Design of Energy Efficient Facilities

- The new build extension will meet all of the requirements of Part L2A (2013) of the Building Regulations.
- An energy model that produces a notional, a target and a design carbon dioxide emission figure for the new build extension. The design figure must be lower than the target figure to achieve compliance. This calculation will be undertaken using an approved calculation tool such as iSBEM or similar approved. The new build extension will achieve compliance with the criteria.
- In order to minimise internal glare problems, occupant controlled blinds will be provided to all teaching spaces, offices and meeting rooms. The blind installation will be designed to avoid any detrimental effects on the performance of the natural ventilation provision to the space.

Energy Management System

- The provision of BMS linked metering will be used to assist the building to be run more efficiently.
- All electrical distribution boards in the new extension will be split between lighting circuits and small power circuits. The main incoming supply will be metered.
- The main incoming gas supply to the boiler plant will be metered and connected to the Building Management System.
- As part of the detailed design, opportunities to refine the façade and building envelope will be considered to reduce the building energy load if possible.

Renewable Energy

- Renewable energy sources will be further investigated to provide the energy usage required under the Building Regulations.
- Enhanced insulation required beyond standard building regulation requirements.
- Overt sustainability – all sustainability features will be prominent, legible and accessible to pupils, visitors and staff wherever safe and practicable.
- The aim is to deliver a BREEAM 'Very good' rating to the new extension to the school.

Measures to reduce energy demands include:

- Passive design to optimise natural daylight in conjunction with daylight linked lighting controls and high efficiency background/task lighting.
- Construction to a high level of air tightness to minimise heat loss from leaks
- Optimised heating systems and controls to reduce inefficient heating
- Intelligent controls connected to the Building Management System (BMS)

Encourage People to cycle, walk and use public transport to school whenever practical.

- Give safe easy direct access by foot, cycle and bus. A draft travel plan has been completed by the school and the BMBC travel co-ordinator.
- Provide high quality cycle parking, near entrance, overlooked to improve safety and to project cycling as a stylish as well as healthy and convenient way to travel.