

Manchester College, Openshaw

Proposed Installation of Roof Mounted Solar Modules to Whitworth Building

Design Statement

Manchester College wish to install solar modules to the roof of their Whitworth Building which is located within the Openshaw Campus on Ashton Old Road. The proposed installation is intended to provide the college with approaching 395kW of renewable energy and thus reduce carbon by 22.5 Tonnes of CO2 per year.

The proposal supports both the Government's and GMCA's aspiration to reduce the reliance of the public sector estate on fossil fuels and to reduce its carbon footprint. Furthermore, the works once operational will reduce the College's energy bills at a time when such costs are rising significantly.

The solar modules are intended to be installed to the Eastern part of the existing gently sloping roof to Whitworth House. They will project no further than 200mmm above the existing surface and being set back at least 1m from the edge will have little if any visual impact.

In total, 875no. solar modules are proposed, each providing 450W peak power and being approximately 2m x 1m in size. There is no requirement to provide a battery storage facility as peak power will not exceed the average daily consumption.